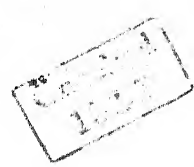


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# ASTROGRAPHIC CATALOGUE.

1900·0.

HYDERABAD SECTION

DEC.  $-16^{\circ}$  to  $-21^{\circ}$ .

FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE NIZAMIAH  
OBSERVATORY, HYDERABAD.

UNDER THE DIRECTION OF

R. J. POCKOCK, B.A., B.Sc., F.R.A.S.



VOL. II.

## MEASURES OF RECTANGULAR CO-ORDINATES AND DIAMETERS OF 61,378 STAR-IMAGES

ON PLATES WITH CENTRES IN

DEC.  $-18^{\circ}$



EDINBURGH:

PRINTED FOR H.E.H. THE NIZAM'S GOVERNMENT

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## NOTE.

No second proofs were submitted by the printers, the first proofs containing comparatively few corrections. While the printing was in progress an exhaustive examination of all discordant residuals from the reference stars was made, in the course of which it was found advisable to re-solve a few of the plates, and a good many measures were found to be faulty, usually on the earlier plates, the measures of which (particularly of the bright stars near the edges which give a large image) are not as good as those of later plates owing to the inexperience of the measurers. All cases where it was found possible to materially improve the constants or measures are given in the following list of errata, as also all other errors found when comparing the catalogue of standard co-ordinates with the general body of the catalogue, or other errors found incidentally.

Experience has shown that bad measures are almost all confined to the earlier plates, particularly to some in which the guiding is not quite perfect. It is also believed that a much smaller proportion of errors would be found among the faint stars than among the bright.

Nearly all the stars badly measured are close to the edges of the plate, and it will be seen that there is a marked tendency to bisect the images of the stars too far from the plate centre. Previous to undertaking this checking it had been suspected that such a tendency existed in the case of measures of bright stars on early plates.

## ERRATA.

VOL. II. ZONE — 18°.

PAGE		PAGE
13, 3036 <sub>u</sub> , for 1.894 read 1.897.		19, 5351 <sub>u</sub> , for 1.246 read 1.243.
13, Plate 859, R.A. 1 <sup>h</sup> 52 <sup>m</sup> .		19, 5361 <sub>u</sub> , for 1.714 read 1.710.
A           B           C		19, 5366 <sub>u</sub> , for 25.186 read 25.190.
—02578 —00030 +.2269		20, 5429 <sub>u</sub> , for 4.206 read 4.203.
D           E           F		20, 5566 <sub>u</sub> , for 2.715 read 2.712.
+.00075 —02597 —.3043		21, 6078 <sub>u</sub> , for 1.046 read 1.050.
14, 3418 <sub>u</sub> , for 2.156 read 2.153.		22, 6319 <sub>u</sub> , for 24.906 read 24.909.
15, Plate 881, R.A. 2 <sup>h</sup> 16 <sup>m</sup> .		27, 7968 <sub>u</sub> , for 23.741 read 23.746, and for 23.558 read 23.562.
A           B           C		27, 8029 <sub>u</sub> , for 22.044 read 22.040.
—02509 +.00575 +.1332		29, 8651 <sub>u</sub> , for 12.100 read 12.104.
D           E           F		34, 10754 <sub>u</sub> , for 23.296 read 23.299.
—00571 —02566 +.0011		35, 10851 <sub>u</sub> , for 1.338 read 1.341.
17, 4561 <sub>u</sub> , for 25.022 read 25.025.		35, 10851 <sub>u</sub> , for 0.135 read 0.139.
17, 4604 <sub>u</sub> , for 4.215 read 4.211.		
18, 4952 <sub>u</sub> , for 24.761 read 24.764.		

## PAGE

- 35, 10862\*, for 1:386 read 1:383.  
 38, 11944\*, for 0:850 read 0:855.  
 38, 12069\*, for 23:520 read 23:516.  
 38, 12227\*, for 12:466 read 12:476.  
 39, 12575\*, for 14:444 read 14:447.  
 42, 13572\*, for 19:680 read 19:677.  
 43, 13785\*, for 5:627 read 5:630.  
 44, 14192\*, for 2:513 read 2:518.  
 45, 14638\*, for 24:520 read 24:517.  
 45, 14740\*, for 23:184 read 23:180.  
 46, 14923\*, for 7:078 read 7:081.  
 50, 16309\*, for 25:473 read 25:477.  
 50, 16441\*, for 21:030 read 21:027.  
 50, 16488\*, for 22:415 read 22:514.  
 50, 16524\*, for 15:734 read 16:734.  
 52, 17319\*, for 23:540 read 23:537.  
 55, 18096\*, for 25:054 read 25:045.  
 56, 18461\*, for 12:437 read 12:440.  
 62, 20585\*, for 1:807 read 1:811.  
 62, 20653\*, for 22:223 read 22:226.  
 64, 21583\*, for 25:299 read 25:304.  
 66, 22228\*, for 25:337 read 25:342.  
 68, 22849\*, for 24:042 read 24:036.  
 70, 23416\*, for 3:120 read 3:122 and for 24:024 read 24:020.  
 70, 23510\*, for 0:241 read 0:237.  
 71, 24095\*, for 25:412 read 25:405.  
 75, 25350\*, for 25:062 read 25:070.  
 75, 25416\*, for 1:554 read 1:560.  
 76, 25616\*, for 20:388 read 20:391.  
 76, 25625\*, for 21:650 read 21:654.  
 77, 26173\*, for 13:192 read 13:189.  
 78, 26537\*, for 12:470 read 12:473.  
 79, 26858\*, for 25:694 read 25:701.  
 89, Plate 630 R.A. 10<sup>h</sup> 32<sup>m</sup>.  

A	B	C
-02568	+00946	+0799
D	E	F
-00972	-02589	-1388

- 93, 31751\*, for 9:646 read 8:650.  
 93, 32021\*, for 14:205 read 14:202.  
 94, 32398\*, for 15:836 read 15:840.  
 95, 32505\*, for 8:646 read 8:650 and for 1:532 read 1:530.

## PAGE

- 95, 32628\*, for 15:075 read 15:082.  
 97, Plate 620, R.A. 11<sup>h</sup> 44<sup>m</sup>.

A	B	C
-02550	+00302	+1704
D	E	F
-00336	-02587	-4932

- 97, 33224\*, for 2:253 read 2:257.  
 97, 33279\*, for 6:874 read 0:880.  
 98, 33597\*, for 23:758 read 23:761.  
 98, 33662\*, for 0:751 read 0:754.  
 98, 33698\*, for 25:178 read 25:183.  
 99, Plate 640, R.A. 12<sup>h</sup> 8<sup>m</sup>.

A	B	C
-02565	-00440	-2903
D	E	F
+00406	-02544	-1810

- 99, 34158\*, for 0:728 read 0:733.  
 102, 35248\*, for 17:164 read 17:157 and for 9:130 read 9:132.  
 102, 35287\*, for 10:740 read 10:736.  
 103, 35403\*, for 9:374 read 9:370.  
 103, 35467\*, for 3:407 read 3:410.  
 106, 36832\*, for 6:346 read 6:349.  
 107, 36937\*, for 2:987 read 2:990.  
 107, Plate 654, R.A. 13<sup>h</sup> 28<sup>m</sup>.

A	B	C
-02555	+00718	+1562
D	E	F
-00704	-02597	-2182

- 112, Plate 675, R.A. 14<sup>h</sup> 16<sup>m</sup>.

A	B	C
-02528	+00489	+1107
D	E	F
-00580	-02593	-3348

- 152, 53884\*, for 14:011 read 14:009.  
 157, 55821\*, for 17:691 read 17:689.  
 171, 60913\*, for 15:256 read 15:260.  
 184, 65420\*, for 15:110 read 15:106.  
 186, 66358\*, for 12:062 read 12:060.  
 195, R.A. 4<sup>h</sup> 32<sup>m</sup>, A. 1458, for 18:8829 read 18:8899.

HYDERABAD ASTROGRAPHIC CATALOGUE.  
1900.

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VOL. II.

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INTRODUCTION.

[A more detailed Introduction will be found at the beginning of Vol. I. Only such information as differs from volume to volume is repeated here.]

I. HISTORICAL SUMMARY.

A large part of the work of the present zone was done concurrently with the work on Zone 17, but when Zone 17 was finished in 1916 December a considerable portion of Zone 18 remained outstanding, and the zone was not actually completed until about a year later (1917 December). The earliest plate used in the present volume is dated 1915 January 11, and the measurement of plates in this zone started shortly afterwards. The last plate taken for this volume is dated 1917 November 7. The measurement was completed early in 1917 December, so that the work on the zone was spread over nearly three years. The work was copied for press and sent to the printers as the measurement proceeded, so that by the time the last plate was completed, three-quarters of the volume had been printed and passed for press.

As in the case of Zone 17, throughout the work on this zone, the strictest economy in time has been exercised. With more care on the part of the observers, the plate constants might have been kept smaller; in some cases we might have waited to secure plates showing more stars (this, of course, was done in cases where the original plates fell very far below the standard, but the actual lower limit set was not strictly adhered to where any delay would have been caused by waiting for another plate); in a few cases plates have been used in which, owing to errors in guiding, the images, though measurable, are not perfectly circular; and there

is no doubt that the early plates (the 28 plates with numbers less than 598) could be somewhat improved by re-measurement. It is hoped, however, that in spite of the rapidity with which the work has been done, an accuracy sufficient for the purposes of the Astrographic Catalogue has been attained. The justifications for not spending more time over the above and other points are mainly :—

(i) Owing to local circumstances His Highness' Government were only prepared to support the Observatory for a very limited time, during which it was desirable, if possible, to complete the share of the work allotted to Hyderabad.

(ii) The project now known as the Astrographic Catalogue was initiated as far back as 1887, and after the lapse of thirty years is still very far from complete. Particularly is this the case with regard to the zones south of the Equator; the time seems to have come when we are no longer justified in spending an unlimited amount of time over the less important details of the work, and when it is desirable to sacrifice such details in order that the work may be completed within a reasonable time.

These points have been constantly borne in mind throughout the work on this zone, and have again and again influenced decisions in smaller matters; at the same time, every effort has been made to attain a standard of accuracy of the same order as that obtained elsewhere.

The following is a list of persons who have taken part in the work of this zone, with the initials by which they are denoted :—

Name.	Initials.	Name.	Initials.
R. J. Pocock . . . .	P.	Syed Ahmed . . . .	A.
T. P. Bhaskaran . . . .	B.	M. Anantanarayanan . . . .	N.
C. Hanmant Rao . . . .	H.	M. K. Bappu . . . .	M.
F. B. Shroff . . . .	F.	U. S. Raghavendra Rao . . . .	R.
D. R. Sripathi Rao . . . .	S.	M. Ahmadullah . . . .	M.A.

In addition, V. Ramachandran and M. V. Vaidyanatha Sastri have assisted with solving the plates and other computing work, while A. J. Govinda Raja, M. Azimuddin, A. V. Bheema Rao, Prakasa Rao, and Dawood Bhai, the two latter working as volunteers, have assisted in taking down the measures, computing, preparing the copy for press and reading the proofs; A. Abkhan has also assisted with the copy for press.

## II.—THE INSTRUMENT.

See Introduction to Vol. I. p. vi.



## III.—PHOTOGRAPHIC.

The plates for this zone have all been given at least two exposures, the second exposure being about half the length of the first, with the telescope slightly displaced in declination between the two exposures. The actual lengths of the exposures have varied with the quality of the plates, the primary exposure being not less than twelve and not more than twenty minutes. The actual exposures given to each plate will be found in the table of details below. The exposures for plates taken prior to 1917 September 15 were timed with a mean time chronometer, and the intervals are, therefore, given in mean time; for plates taken later than this date a sidereal chronometer was used, and the lengths of the exposures for such plates are consequently given in sidereal time. The images due to the longer exposure were measured in all cases save four, viz. :—

5 h 44 m ; 10 h 16 m ; 19 h 28 m ; 20 h 40 m.

when the shorter exposure was measured, the longer being defective.

Plates with numbers not greater than 597 in the present volume are all Barnet Rocket plates, maker's number, B 10,284; plates with numbers from 598 to 881 are Barnet Stella plates, maker's number, A 10,412; plates with numbers over 881 in this volume are Stella plates, number A 10,426. All were developed with metol hydroquinone, by Mr Shroff or Mr Bappu; but for plates with numbers greater than 1121, monomet was used as a substitute for metol.

As in the case of the previous zone, no effort has been made to secure large numbers of stars in the richer regions, large numbers of the fainter stars on such plates being deliberately ignored in measuring them. This is especially the case about 18<sup>h</sup>, where the zone crosses the edge of the star cloud in Sagittarius. On the other hand, every effort consistent with the rapid execution of the work has been made to obtain a good number of stars in the poorer regions. There are only a few plates containing less than 150 stars, and no plates with less than 100.

The ratio of the number of stars to the number shown on Schönfeld's map has also been used as a criterion. There are only three cases in which a ratio of two (equivalent to 2.5 times Argelander) has not been attained, and for more than two-thirds of the plates a ratio of three or more has been attained. The average number of stars per plate is 341.

Two réseaux have been used in the course of the work on this zone, one for plates with numbers less than 598, and one for Plate 598 and subsequent plates. The former was one of a number supplied to the Observatory by the Société Genevoise, none of which were very satisfactory. Owing to the war, however, it was impossible to obtain one elsewhere at the time the work was started, and therefore this, the best



available, was used. The lines are fairly clearly cut (except  $y=26$ , which is poor), but they are not rectangular; this, however, seems to be the only important error, and it is automatically corrected by the plate constants; its effect is to make the sum of the two orientation constants a small positive quantity instead of zero. This réseau is ruled to the standard scale with a spacing of 5.00 mm. between the lines; as the focal length of the Hyderabad telescope requires a spacing of approximately 4.915 mm., this involves a large scale correction of about  $-0.1750$  times the measured co-ordinates.

As this réseau was very old at the time the astrographic work was started, Professor Turner sent from Oxford their réseau No. 5, made by Messrs Gautier, which was never used at Oxford owing to the fact that the line  $y=3$  is displaced. This réseau has, however, been used for all the later plates (152 out of 180) in Zone  $-18^\circ$ , the measures being corrected for the error (see below "Errors of Réseaux"); as it is ruled to suit the focal length of the Oxford instrument, with spacings of 5.04 mm., its use involves scale value corrections of  $-0.2500$  approximately to the measured co-ordinates.

Subsequently, a third réseau, made at the National Physical Laboratory, was received at Hyderabad in 1917, but only a few plates then remained to be taken in Zone  $-18^\circ$ , and this réseau was not brought into use until they had been completed.

The réseau was printed on the plate, just before development, by exposure to an electric light—stopped down so as to allow of an exposure of about ten seconds for new plates—at a distance of 18 feet, the réseau and plate being prevented from coming into contact by an edging of moderately thick paper.

The following table gives the particulars of the plates in the present volume.

The first column gives the number of the plate in the Hyderabad series.

The second column gives the fraction of the year corresponding to the (astronomical) day on which the exposure was made, to three places of decimals.

The third column gives the approximate R.A. of the plate centre.

The fourth column gives the hour angle corresponding to the middle of the exposure which was subsequently measured. Clock corrections have been applied where they amounted to one minute or more.

The fifth column gives the lengths of the exposures (in mean time, except for plates taken after 1917.704, which are in sidereal time); as already stated, the longest exposure was measured in all cases except four, viz. :—

5 h 44 m ; 10 h 16 m ; 19 h 28 m ; 20 h 40 m.

The sixth column indicates the observer who guided the telescope; a second observer was always present to assist in setting the instrument, etc. The significance of the different initials is explained above.

The seventh column shows which of the measuring instruments was used. Each measurer used the same instrument throughout. Plates measured in Nos. 1 and 2 had to be measured with the glass side up.

The eighth column shows the measurer. Each plate was measured throughout in both positions by one measurer.

The ninth column shows the number of stars measured.

The tenth column shows the ratios of the numbers in the ninth column to the numbers in the corresponding areas of Schönfeld's map.

The eleventh column shows the number of stars in the corresponding regions of the A.G. Catalogues (Washington and Algiers—stars occurring in both are, of course, only counted once).

*List of Plates in Zone  $-18^{\circ}$ .*

No. of plate.	Year and fraction, 1900 ±.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m						
822	16-887	0	0	0	42 E.	12 6	H.	1	S.	144	2.8	16
848	16-906			0	30 E.	12 6	P.	4	M.	207	3.1	25
849	16-906	16	0	0	8 E.	12 6	R.	3	A.	205	3.9	19
850	16-906		24	0	34 W.	12 6	N.	1	R.	197	2.9	17
823	16-887		32	0	41 E.	12 6	S.	3	N.	198	2.9	23
833	16-901		40	0	41 E.	12 6	A.	1	S.	212	3.6	16
883	16-947		48	0	13 W.	12 6	P.	3	A.	141	2.4	17
824	16-887	0	56	0	35 E.	12 6	H.	4	M.	189	3.4	17
858	16-909	1	4	0	14 W.	12 6	A.	3	N.	174	3.0	14
834	16-901		12	0	23 E.	12 6	A.	1	S.	211	3.8	19
841	16-904		20	0	56 E.	12 6	S.	4	M.	216	3.3	22
886	16-950		28	0	22 E.	12 6	A.	1	S.	138	2.3	23
851	16-906		36	0	4 W.	12 6	R.	1	R.	201	3.5	22
817	16-884		44	0	10 W.	12 6	M.	3	A.	189	3.1	22
859	16-909	1	52	0	12 W.	12 6	A.	4	M.	164	2.5	19
835	16-901	2	0	0	34 E.	12 6	A.	3	N.	183	2.5	23
843	16-904		8	0	49 E.	12 6	S.	1	R.	243	3.4	23
818	16-884		16	0	8 W.	12 6	M.	1	S.	186	2.9	16
844	16-904		24	0	28 E.	12 6	H.	1	R.	208	3.7	14
836	16-901		32	0	37 E.	12 6	A.	3	A.	222	4.1	19
819	16-884		40	0	16 W.	12 6	M.	4	M.	214	3.3	23
845	16-904		48	0	20 E.	12 6	S.	3	N.	249	3.7	14
825	16-887	2	56	0	56 E.	12 6	S.	3	A.	205	3.2	21
810	16-882	3	4	0	25 E.	12 6	S.	3	A.	214	3.0	20
826	16-887		12	0	22 E.	12 6	H.	4	M.	180	2.4	29
811	16-882		20	0	11 E.	12 6	A.	1	R.	242	4.3	19
838	16-901		28	0	24 E.	12 6	A.	2	M.A.	187	3.1	25
820	16-884		36	0	3 E.	12 6	M.	3	N.	211	4.2	18
827	16-887		44	0	23 E.	12 6	S.	4	M.	228	3.4	24
812	16-882	3	52	0	14 E.	12 6	S.	1	R.	314	4.1	29
868	16-994	4	0	1	3 E.	12 6	S.	3	A.	281	3.3	28
821	16-884	4	8	0	16 W.	12 6	M.	1	S.	287	3.6	32

*List of Plates in Zone  $-18^{\circ}$  (continued).*

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instru-ment.	Measur-er.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m						
828	16-887	4	16	0	26 E.	12 6	H.	3	N.	289	3.4	22
839	16-901		24	0	44 E.	12 6	A.	4	M.	233	2.9	26
847	16-904		32	0	52 E.	12 6	S.	2	M.A.	341	5.1	28
855	16-906		40	0	20 E.	12 6	R.	1	R.	354	4.4	26
856	16-906		48	0	12 W.	12 6	N.	3	A.	314	4.0	21
813	16-882	4	56	0	48 E.	12 6	A.	3	N.	414	5.7	24
907	16-958	5	4	1	5 E.	12 6	A.	4	M.	321	3.8	26
829	16-887		12	0	56 E.	12 6	S.	2	M.A.	413	4.6	31
863	16-909		20	1	2 E.	12 6	A.	1	S.	466	4.5	16
476	15-112		28	0	5 W.	15 8	A.	4	M.	284	3.1	30
804	16-909		36	0	49 E.	12 6	A.	4	M.	523	5.2	39
600	16-164		44	0	36 W.	15 8	R.	4	M.	369	3.7	30
458	15-104	5	52	0	48 E.	15 8	F.	3	N.	265	2.4	28
482	15-115	6	0	0	36 E.	15 8	F.	1	R.	325	2.6	29
445	15-049		8	0	41 E.	15 8	B.	3	A.	527	4.1	33
464	15-107		16	0	39 E.	15 8	B.	1	S.	381	3.0	40
436	15-027		24	0	1 W.	15 8	S.	3	N.	438	3.8	28
441	15-030		32	0	51 E.	15 8	N.	1	R.	506	4.4	32
459	15-104		40	0	34 E.	15 8	N.	1	S.	407	3.1	51
465	15-107		48	0	24 E.	15 8	S.	3	A.	580	4.4	43
471	15-109	6	56	0	17 E.	15 8	IL	3	N.	568	3.7	42
446	15-049	7	4	0	51 E.	15 8	M.	1	R.	1037	6.1	50
472	15-110		12	0	48 W.	15 8	R.	4	M.	696	4.0	46
442	15-030		20	1	4 E.	15 8	N.	3	N.	764	5.2	43
477	15-112		28	0	10 E.	15 8	A.	3	A.	745	4.6	51
400	15-104		36	0	48 E.	15 8	F.	1	S.	800	5.3	45
447	15-049		44	0	53 E.	15 8	B.	1	R.	1037	5.9	47
483	15-115	7	52	1	26 E.	15 8	N.	3	N.	632	3.9	32
484	15-115	8	0	0	54 E.	15 8	F.	3	A.	618	3.7	40
478	15-112		8	0	1 W.	15 8	A.	4	M.	560	3.5	40
456	15-101		16	0	21 E.	15 8	M.	4	M.	606	3.9	45
461	15-104		24	0	57 E.	15 8	N.	1	S.	458	2.9	42
485	15-115		32	0	51 E.	15 8	N.	3	A.	398	2.9	48
488	15-120		40	0	51 E.	15 8	IL	3	N.	393	2.6	28
462	15-104		48	0	43 E.	15 8	F.	1	R.	189	1.9	29
489	15-120	8	56	0	25 E.	15 8	N.	4	M.	174	2.3	25
494	15-123	9	4	0	27 E.	15 8	A.	4	M.	299	2.8	28
601.	16-164		12	1	35 E.	15 8	S.	1	S.	464	4.6	30
495	15-123		20	0	7 E.	15 8	A.	4	M.	266	2.6	27
598	16-161		28	1	10 E.	16 8	P.	1	S.	493	1.9	32
606	16-167		36	1	8 E.	15 8	A.	3	N.	609	6.2	30
522	15-205		44	0	44 E.	15 8	F.	1	R.	207	2.3	21
602	16-164	9	52	1	25 E.	15 8	R.	1	R.	480	6.9	22
599	16-161	10	0	0	57 E.	16 8	P.	3	N.	532	7.1	22
607	16-167		8	0	40 E.	15 8	M.	3	A.	496	6.1	28
612	16-172		16	0	51 E.	15 8	IL	4	M.	309	3.4	26
618	16-175		24	0	43 E.	15 8	N.	1	S.	326	3.5	27
630	16-181		32	0	44 E.	15 9	B.	3	A.	342	3.9	25
631	16-181		40	0	10 E.	15 8	R.	4	M.	309	4.2	15
619	16-175	10	48	0	26 E.	15 8	S.	1	R.	369	5.8	23

## INTRODUCTION.

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*List of Plates in Zone  $-18^{\circ}$  (continued).*

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instru-ment.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m	m					
613	16-172	10	56	0	56 E.	15	8	R.	S.	293	3.7	20
625	16-178	11	4	0	44 E.	15	8	M.	N.	334	4.6	23
648	16-233	12	0	0	55 E.	12	6	A.	A.	169	2.3	24
614	16-172	20	0	0	30 E.	15	15	H.	M.A.	223	2.7	27
716	16-345	28	0	0	38 W.	12	6	P.	A.	219	2.8	22
650	16-236	36	1	19	E.	12	6	R.	N.	167	2.1	25
620	16-175	44	0	0	40 E.	15	8	N.	M.A.	272	3.3	35
632	16-181	11	52	0	41 E.	15	8	B.	S.	226	2.6	15
615	16-172	12	0	0	15 E.	15	8	R.	A.	354	4.7	23
640	16-186	8	0	0	51 E.	15	8	A.	N.	306	4.5	13
717	16-345	16	0	0	25 W.	12	6	F.	A.	228	3.3	17
621	16-175	24	0	0	30 E.	15	8	S.	R.	350	4.8	27
626	16-178	32	1	5	E.	15	8	M.	M.A.	269	3.6	29
651	16-236	40	0	0	48 E.	12	6	N.	S.	156	2.2	21
641	16-186	48	0	0	56 E.	15	8	M.	M.	293	3.9	23
627	16-178	12	56	0	49 E.	15	8	A.	S.	286	4.1	17
653	16-241	13	4	1	41 E.	12	6	H.	M.A.	200	3.2	23
718	16-345	12	0	0	1 E.	12	6	P.	M.	256	3.2	16
680	16-276	20	0	0	44 W.	12	6	M.	N.	268	3.4	22
654	16-241	28	1	1	1 E.	12	6	H.	M.	290	3.8	14
658	16-246	36	0	0	43 E.	12	6	R.	S.	244	3.0	19
665	16-257	44	1	12	E.	12	6	N.	N.	322	5.3	21
674	16-274	13	52	0	6 E.	12	6	H.	M.A.	248	3.4	18
686	16-318	14	0	0	43 E.	12	6	M.	M.	240	2.9	24
687	16-318	8	0	0	19 E.	12	6	M.	A.	230	2.9	20
675	16-274	16	0	0	5 W.	12	6	R.	M.A.	283	3.9	23
704	16-329	24	0	0	31 E.	12	6	M.	M.	204	2.8	20
692	16-320	32	0	0	47 E.	12	6	A.	A.	248	3.2	24
705	16-328	40	0	0	9 E.	12	6	M.	A.	254	3.0	21
676	16-274	48	0	0	7 W.	12	6	H.	S.	279	3.6	26
681	16-276	14	56	0	4 W.	12	6	M.	M.	255	3.3	22
694	16-320	15	4	0	4 E.	12	6	S.	M.A.	288	3.7	26
688	16-318	12	0	0	47 E.	12	6	M.	N.	286	3.4	26
711	16-331	20	1	15	E.	12	6	A.	A.	260	3.3	17
698	16-323	28	1	29	E.	12	6	H.	M.A.	366	4.2	22
712	16-331	36	0	0	51 E.	12	6	S.	S.	337	3.7	19
689	16-318	44	0	0	44 E.	12	6	M.	M.	220	3.0	24
713	16-331	15	52	0	29 E.	12	6	A.	A.	266	3.8	15
699	16-323	16	0	0	1 28 E.	12	6	N.	M.A.	258	4.0	19
706	16-328	8	0	0	59 E.	12	6	M.	M.	211	3.4	16
714	16-331	16	0	0	22 E.	12	6	S.	A.	233	3.5	12
690	16-318	24	0	0	35 E.	12	6	M.	R.	106	2.3	14
701	16-323	32	0	0	59 E.	12	6	N.	M.A.	144	3.1	16
719	16-348	40	1	40	E.	12	6	A.	M.	190	3.1	19
715	16-331	48	0	0	24 E.	12	6	A.	A.	279	3.6	18
707	16-328	16	56	1	1 E.	12	6	M.	M.	276	2.8	24
720	16-348	17	4	1	32 E.	12	6	S.	A.	534	4.5	40
708	16-328	12	0	0	38 E.	12	6	M.	M.	438	4.7	31
721	16-348	20	1	20	E.	12	6	A.	A.	586	5.9	30
722	16-348	17	28	0	59 E.	12	6	S.	N.	780	7.2	32

*List of Plates in Zone -18° (continued).*

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m						
756	16-496	17	36	0	30 W.	12 6	F.	1	R.	253	2-4	30
727	16-430		44	0	48 E.	12 6	A.	4	M.	577	6-0	19
747	16-652	17	52	0	18 W.	12 7	M.	1	R.	774	5-3	30
762	16-671	18	0	0	34 W.	12 6	M.	3	N.	1095	8-2	33
728	16-430		8	0	42 E.	12 6	F.	1	S.	1692	8-7	59
729	16-430		16	0	24 E.	12 6	A.	4	M.	895	5-9	55
730	16-430		24	0	4 E.	12 6	F.	3	N.	1354	12-0	35
743	16-556		32	0	8 E.	12 6	M.	1	R.	884	7-7	23
748	16-652		40	0	11 W.	12 6	M.	4	M.	521	3-5	35
750	16-657		48	0	37 W.	12 6	M.	3	A.	550	4-0	35
760	16-668	18	56	1	29 W.	12 6	A.	1	R.	438	2-7	37
1062	17-383	19	4	0	45 E.	12 6	S.	3	N.	538	3-7	31
1063	17-383		12	0	23 E.	12 6	N.	4	M.	548	3-6	44
1074	17-687		20	0	32 W.	12 6	N.	3	N.	245	2-0	44
1076	17-690		28	0	26 W.	12 6	M.	4	M.	235	2-3	34
1092	17-764		36	0	32 W.	18 10	N.	3	N.	207	2-0	22
1064	17-383		44	0	25 E.	12 6	S.	3	A.	276	2-6	26
1116	17-840	19	52	1	41 W.	20 10	S.	1	R.	246	2-1	23
1065	17-383	20	0	0	10 E.	12 6	N.	1	R.	263	2-7	30
1120	17-843		8	2	25 W.	20 10	Jl.	3	N.	244	2-6	27
1097	17-780		16	0	3 E.	15 8	R.	1	S.	255	2-5	34
1099	17-783		24	0	7 E.	18 10	N.	4	M.	332	3-3	29
1094	17-764		32	1	58 W.	20 10	N.	3	N.	170	1-7	28
1100	17-783		40	0	38 W.	18 10	N.	1	R.	210	2-4	25
1098	17-780		48	0	2 W.	15 8	A.	4	M.	175	2-2	22
761	16-668	20	56	0	10 E.	14 7	A.	2	M.A.	229	2-3	28
794	16-876	21	4	1	15 W.	12 6	H.	4	M.	370	4-0	23
1114	17-835		12	0	39 W.	20 10	P.	1	R.	166	2-2	18
1122	17-846		20	0	47 W.	20 10	M.	4	M.	248	2-6	13
1127	17-849		28	0	36 W.	20 10	S.	1	S.	195	2-4	21
1108	17-786		36	0	8 E.	18 10	S.	1	R.	268	3-6	23
795	16-876		44	1	18 W.	12 6	S.	3	A.	352	5-0	23
1101	17-783	21	52	0	8 W.	18 10	S.	4	M.	241	4-2	19
1117	17-840	22	0	0	47 W.	20 10	R.	1	R.	258	3-8	27
1123	17-846		8	0	51 W.	20 10	R.	3	N.	182	3-3	17
814	16-884		16	1	17 W.	12 6	M.	2	M.A.	207	2-8	10
1102	17-783		24	0	16 W.	18 9	S.	1	S.	195	2-8	28
1128	17-849		32	0	17 W.	20 10	S.	4	M.	184	2-8	22
815	16-884		40	0	23 W.	12 6	M.	4	M.	239	3-4	22
1118	17-840		48	0	50 W.	20 10	S.	1	R.	149	2-2	14
816	16-884	22	56	1	41 W.	12 6	M.	1	R.	232	3-1	21
1121	17-843	23	4	1	9 W.	20 10	N.	3	N.	120	1-6	20
830	16-890		12	0	17 W.	12 6	R.	2	M.A.	134	2-2	19
1095	17-764		20	0	2 E.	18 12	M.	4	M.	117	2-0	15
1103	17-783		28	0	0	18 10	N.	1	R.	166	2-8	20
831	16-890		36	0	35 W.	12 6	N.	1	R.	130	2-1	13
832	16-901		44	0	11 E.	12 6	A.	3	N.	233	3-4	19
884	16-950	23	52	0	12 W.	12 6	A.	4	M.	196	3-9	20

The total number of star-images measured is 61,378.

## IV.—MEASUREMENT OF THE PHOTOGRAPHS.

See Introduction, Vol. I. p. xiii.

## V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

At the same time that the stars are measured, an estimate is made of the diameter of the star-image. The sum of the estimates made in the two positions of the plate is given in the second column under the heading  $d$  in the Catalogue. The unit is thus  $0''.15$ , as at Greenwich.

The remarks as to the value of these estimates, as made at Hyderabad in the Introduction to Vol. I. p. xiii, apply to a large extent to the present zone, but in the case of the plates measured towards the conclusion of this zone, there has been considerable improvement in this part of the work, and the estimates are on a better scale, though still leaving room for improvement.

The adopted formula is

$$m = a - b\sqrt{d},$$

where  $m$  is the required photo-magnitude and  $d$  the diameter in units of  $0''.15$ ;  $a$  and  $b$  are certain constants.

In the case of the present volume the values  $b=1.10$  and  $b=1.05$  were found for early and late plates respectively. Both these are so close to  $1.09$ , the value found for Zone  $-17^\circ$ , that there was no great need to alter the value, especially as the errors of the magnitudes of the fainter stars are much larger than any error introduced by using the value  $b=1.05$  instead of  $1.09$  (see *Mon. Not. R.A.S.*, vol. 78 p. 367). However, when the printing was started it was not known that the later plates would conform so closely to this value, and the actual values  $1.10$  and  $1.05$  have been given at the head of the plates and used in computing the values of  $a$ .

The magnitudes of the reference stars are given in the Washington and Algiers Catalogues on scales similar to the B.D. scale. The scales of these two Catalogues are so closely similar that there seemed no necessity to treat them separately, and by counting the numbers given under different headings they were converted into a scale comparable with that of Chapman and Melotte.

These revised magnitudes were then substituted in the above formula, and the value of  $a$  determined for each star on the plate. The mean value of  $a$  thus determined for each plate was adopted.

Tables are given on pages xlv to xlix, by means of which the measured diameter may be converted into magnitudes.

## VI.—MEASURES OF POSITION.

## PERSONALITY OF MEASURERS.

The personality is determined for each plate as the work proceeds in the same manner as at Oxford. A full discussion will be found in *Mon. Not. R.A.S.*, vol. lvii. p. 621, and it is only necessary here to tabulate the mean personality of each measurer.

In the work on Zone  $-17^{\circ}$  it was found that during the period 1915 August–1916 March, when no Hyderabad plates were measured, one or two of the measurers changed their personality. For all measurers the personality is given separately for the two groups—there have also been one or two other changes of personality, in some cases probably accounted for by severe attacks of fever, to which most of the staff became liable after the introduction to the station of a virulent type of malaria, brought by the troops from East Africa and Mesopotamia. Within the groups indicated below the personality remains remarkably constant.

*Personality determined from Plates in Zone  $-18^{\circ}$ .*

Measurer.	Limiting plate Nos.	R.—D.		No. of plates.
		<i>x.</i>	<i>y.</i>	
M. . . . .	456–495	+ 8	— 1	7
	600–1128	+ 5	+ 2	38
N. . . . .	436–488	—16	+ 7	6
	599–1123	— 5	+ 7	26
R. . . . .	441–522	— 2	+ 5	6
	602–855	— 5	— 4	17
	1065, 1100, 1108, 1116	+ 3	+ 5	4
	1103, 1114, 1117, 1118	— 2	+ 5	4
A. . . . .	445–485	— 1	— 2	26
S. . . . .	459–464	— 6	+ 3	4
	598–728	— 9	— 5	11
	818–863	— 7	+12	7
	1097–1127	+ 3	+ 1	3
M.A. . . . .	614–847	+ 8	+ 5	16

The discordances R—D are tabulated above in units of  $0''.03$ , and are double the “error of bisection.”



## PROBABLE ERROR OF THE MEASURES.

For the probable error of a single bisection see Introduction, Vol. I. p. xvi. A determination of the probable error of the final star place is given in the Introduction to Vol. I. p. xvii. This, however, depends on stars which occur on two plates only, and always near the edge of both. Now that two zones have been measured there are a considerable number of reference stars for which residuals are available from three plates, and a new determination has been made from such stars. Owing to the natural improvement in the work as it proceeds, and to the fact that such stars occur well placed on at least one plate, they may be expected to give a somewhat smaller value of the probable error, but one which is probably still an upper limit. A separate determination has also been made for the reference stars from the Algiers Catalogue, the residuals of which are much larger than in the case of the Washington stars, and which do not, therefore, give such reliable plate constants; they may be expected, then, to give a larger probable error than the Washington stars.

The three values of the probable error so determined are :—

	In $x$ .	In $y$ .	Mean.
Washington stars { original determination . . .	$\pm 0^{\circ} 47$	$\pm 0^{\circ} 32$	$\pm 0^{\circ} 40$
{ later determination . . .	$\pm 0^{\circ} 39$	$\pm 0^{\circ} 31$	$\pm 0^{\circ} 35$
Algiers stars . . . . .	$\pm 0^{\circ} 46$	$\pm 0^{\circ} 36$	$\pm 0^{\circ} 41$

The result is, therefore, to confirm the conclusion reached previously that  $\pm 0^{\circ} 40$  may be taken as certainly not too low an estimate of the probable error of a co-ordinate as finally determined with the provisional constants.

## ERRORS OF RÉSEAU.

It has already been stated that the réseau used for the great majority of the plates in the present volume has the line  $y=3$  displaced. The displacement is parallel to the true direction and amounts to  $\cdot 0158$  réseau intervals. In measuring the stars in the two lines affected the focal length of the measuring microscope is altered after the  $x$  co-ordinates of these stars have been measured in order to measure the  $y$  co-ordinates.

The means of the two measures so made in different positions of the plate are then corrected; for stars for which  $3 > y > 3$  the correction is  $-.0158 (y-2)$ , and for stars for which  $4 > y > 3$  the correction is  $-.0158 (4-y)$ , and is easily applied by means of a small table; thus, when  $y$  lies between 2.601 and 2.665, subtract 0.010, and when  $y$  lies between 3.601 and 3.665, subtract 0.006.



## VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulæ given in *Monthly Notices of the R.A.S.*, liv. p. 11. The rigorous formulæ were, however, replaced by approximate formulæ more convenient in practice (see below).

The positions of the reference stars for the present volume were taken partly from the Washington and partly from the Algiers *Astronomische Gesellschaft* Catalogue. Of this latter Catalogue a type-written copy was kindly placed at our disposal by the Director of the Paris Observatory. For stars common to both Catalogues, the Algiers' place was used. Both Catalogues give the positions of the stars for 1900·0, the epoch of the Astrographic Catalogue. After the constants have been determined they are used to correct the Hyderabad places for comparison with Washington and Algiers, the residuals so obtained being entered in ledgers. In the case of comparisons with Washington, the residuals are usually small, except in the case of known proper motion stars; about 80 per cent. are under one second of arc, and scarcely any exceed three seconds of arc. Only one actual error has been detected in the Washington Catalogue. In the case of the comparisons with Algiers, the residuals are somewhat larger; a considerable number of errors have also been detected, most—if not all—of which probably exist only in the typed copy, and are probably absent from the original manuscript.

The method of computing the provisional constants is fully explained in the Introduction to the Oxford Astrographic Catalogue, vol. i. pp. xxxvii *et seq.*; but for convenience of reference it is described briefly below.

The Washington and Algiers places were first converted into standard co-ordinates by the methods explained in the next section. A Catalogue of these standard co-ordinates follows the photographic Catalogue (see p. 189). An approximate solution was then formed, generally from four stars only. The scale value was always taken as —01750 or —02500 (for the application of the former a table was constructed; the latter is easily worked mentally), and the other constants were chosen to be convenient numbers to work with.

Now if  $\xi$ ,  $\eta$  represent standard co-ordinates referred to the plate centre as origin,  $\alpha$ ,  $\delta$ , R.A. and Declination,  $A$ ,  $D$ , the R.A. and Declination of the plate centre, we have

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \tan \theta &= \sec (\alpha - A) \tan \delta, \\ k &= 687 \cdot 549 \text{ (reciprocal of circular measure of } 5').\end{aligned}$$

Then if  $\xi' = \xi + 13$ ,  $\eta' = \eta + 13$ ;  $\xi'$ ,  $\eta'$  represent standard co-ordinates referred

to the corner of the réseau, and if  $\Delta\xi'$ ,  $\Delta\eta'$  represent the correction calculated by means of the approximate solution,

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta'.$$

If  $x$ ,  $y$  represent the original measures, we can form the differences  $x-x'$ ,  $y-y'$  and find the mean values of  $x$ ,  $x-x'$ ,  $y$ ,  $y-y'$  for the four quarters of the plate. We thus get four pairs of equations of the type

$$ax + by + c = x - x', \quad dx + ey + f = y - y',$$

from which the six constants  $a$ ,  $b$  . . . can be computed.

Now, if the constants of the approximate solution are represented by  $A'$ ,  $B'$ , . . . and those of the final solution by  $A$ ,  $B$ , . . . we have the pairs of equations

$$\begin{aligned} x' &= \xi' + A'\xi' + B'\eta' + C', & y' &= \eta' + D'\xi' + E'\eta' + F', \\ x &= x' + ax + by + c, & y &= y' + dx + ey + f, \\ \xi' &= x - Ax - By - C, & \eta' &= y - Dx - Ey - F, \end{aligned}$$

and  $A$ ,  $B$ ,  $C$  . . . are connected with  $A'$ ,  $B'$ , . . .  $a$ ,  $b$  . . . by the relations

$$\begin{aligned} A &= A' + a - A'(A' + a) - B'(D' + d), \\ B &= B' + b - A'(B' + b) - B'(E' + e), \\ C &= C' + c - A'(C' + c) - B'(F' + f), \\ D &= D' + d - E'(D' + d) - D'(A' + a), \\ E &= E' + e - E'(E' + e) - D'(B' + b), \\ F &= F' + f - E'(F' + f) - D'(C' + c). \end{aligned}$$

The corrections to the sums  $A' + a$ , etc., are small, and are very easily applied.

Finally, we have the equations

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

connecting the standard co-ordinates with the measures by means of the provisional constants.

In forming the equations for each plate, stars known to have large proper motions, and other stars showing abnormal residuals, were omitted from the solution.

Theoretically we should have  $A-E$  a small positive quantity, due to refraction (see below), and  $B+D=0$ , or, in the case of plates with numbers less than 598, a small positive quantity; where  $A-E$ ,  $B+D$ , are negative or large positive quantities, it generally happens that the reference stars are not evenly distributed over the plate, though it is not possible in this way to account for all the abnormal results.

Accurate formulæ for the effects of differential refraction are given in *Monthly Notices of the R.A.S.*, lvii. p. 185.

If  $\beta_0$  is the coefficient of refraction, X, Y are the co-ordinates of the zenith supposed projected on the plate, and X, Y,  $x$ ,  $y$  are measured in terms of the focal length of the telescope as unit, the corrections to be applied to  $x$ ,  $y$  are, omitting terms beyond the first order, which can have no effect on plates in this volume,

$$\Delta x = \beta_0(1+X^2)x + \beta_0XYy; \quad \Delta y = \beta_0XYx + \beta_0(1+Y^2)y.$$

These corrections are tabulated below for plates taken within three hours of the meridian.

Zone  $-18^\circ$ .—Correction for Refraction in Units of  $\cdot 000001$ .

Hour angle.		$\beta_0(1+X^2)$ .	$\beta_0XY$ .	$\beta_0(1+Y^2)$ .	Hour angle.		$\beta_0(1+X^2)$ .	$\beta_0XY$ .	$\beta_0(1+Y^2)$ .
h	m				h	m			
0	0	283	0	426	1	36	362	112	443
	8	284	8	426		44	378	125	447
	16	285	16	426		52	396	138	451
	24	287	25	427	2	0	417	152	455
	32	291	33	428		8	441	167	460
	40	295	42	429		16	468	184	466
	48	301	51	430		24	499	202	471
0	56	307	60	432		32	535	222	479
1	4	315	70	433		40	576	244	486
	12	325	80	436		48	623	269	495
	20	335	90	438	2	56	679	297	506
1	28	348	101	441	3	4	744	329	518

The corrections at  $2^h 0^m$  are

$$\begin{aligned} \Delta x &= +\cdot 000417x - \cdot 000152y, \\ \Delta y &= -\cdot 000152x + \cdot 000457y, \end{aligned}$$

taking the upper sign for plates taken in east hour angles.

The corrections for differential aberration are—

$$\begin{aligned} \Delta x &= +K \cos CW \cdot x, \\ \Delta y &= +K \cos CW \cdot y, \end{aligned}$$

where C is the plate centre and W is the point to which the Earth tends. We have

$$K \cos CW = 0\cdot 000100 \{-0\cdot 40 \sin D \cos \odot - 0\cdot 96 \cos D \sin (A - \odot)\},$$

where  $\odot$  is the sun's longitude; omitting a term  $0\cdot 000004 \cos D \sin (A + \odot)$ .

For the present volume  $D = -18^\circ$ , and we have therefore

$$K \cos CW = +0\cdot 000012 \cos \odot - 0\cdot 000091 \sin (A - \odot).$$

It will make very little difference if we substitute the sun's R.A. for longitude ; and then for a plate taken on the meridian at midnight  $A - \odot = 180^\circ$ , and the second term vanishes. For plates taken on the meridian at other times, the second term has the following values in units of the sixth decimal place :—

6 <sup>h</sup> . -91	7 <sup>h</sup> . -88	8 <sup>h</sup> . -79	9 <sup>h</sup> . -65	10 <sup>h</sup> . -46	11 <sup>h</sup> . -24	12 <sup>h</sup> . 0	13 <sup>h</sup> . +24	14 <sup>h</sup> . +46	15 <sup>h</sup> . +65	16 <sup>h</sup> . +79	17 <sup>h</sup> . +88	18 <sup>h</sup> . +91
-------------------------	-------------------------	-------------------------	-------------------------	--------------------------	--------------------------	------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

The first term has the following values at the middle of each month in units of the sixth decimal place :—

Jan. +5	Feb. +10	Mar. +12	Apr. +11	May. +7	June. +1	July. -5	Aug. -10	Sept. -12	Oct. -11	Nov. -7	Dec. -1
------------	-------------	-------------	-------------	------------	-------------	-------------	-------------	--------------	-------------	------------	------------

Thus the measures made on a plate taken on the meridian at 17 hours in September require the corrections  $+000076x$ ,  $+000076y$  for aberration.

#### VIII.—DETERMINATION OF A STAR'S STANDARD CO-ORDINATES FROM ITS RIGHT ASCENSION AND DECLINATION: AND OF ITS R.A. AND DECLINATION FROM ITS MEASURED CO-ORDINATES.

By means of the provisional constants given at the head of each plate, the standard co-ordinates of a star are obtained by the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F.\end{aligned}$$

The term "standard co-ordinates" is now generally adopted to denote the co-ordinates of a star on a plate which fulfils the following conditions :—

- (i.) The plate truly centred and oriented for 1900-0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

If (A, D) are R.A. and Declination of the plate centre, and ( $\alpha$ ,  $\delta$ ) those of a star, we have

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \tan \theta &= \sec (\alpha - A) \tan \delta \text{ and } k = 687.549.\end{aligned}$$

In zones not too near the pole, we may transform these into approximate formulæ as follows :—

Let

$$\begin{aligned}X &= \alpha - A \text{ in units of } 20''., \\ Y &= \delta - D \text{ in units of } 300''.\end{aligned}$$

Then, with sufficient accuracy in zone  $-18^\circ$ , we have

$$\eta = Y + \left(\frac{1}{3} \mu \sin 2D\right) \cdot X^2 + \frac{1}{6} \mu^2 (2Y^2 + 3X^2 \cdot Y \cos 2D),$$

where

$$\mu = 1/k = .00145444.$$

The value of the term  $\frac{1}{3} \mu \sin 2D \cdot X^2$  is given in Table I. for  $D = -18^\circ$  and for different values of  $X$  (since the formulæ are the same for equal declinations N. and S. of the equator,  $D$  is to have its numerical value, the minus sign being ignored in these formulæ).

The small term  $\frac{1}{6} \mu (2Y^2 + 3X^2 \cdot Y \cdot \cos 2D)$  is given in Table II.

Hence we have

$$\eta = Y + \text{Table I.} + \text{Table II.},$$

$$Y = \eta - \text{Table I.} - \text{Table II.}$$

When  $X$  is known, therefore, we can obtain  $\eta$  from  $Y$  or  $Y$  from  $\eta$ .

To get  $\xi$  from  $X$  or  $X$  from  $\xi$ , tables have been prepared in the present volume for two alternative methods, one with and one without logarithms.

(i.) With logarithms—we have

$$\xi = \tan (\mu - A) \cdot \{\sin D \cdot (k \cot D - \eta)\} \quad (1)$$

$$\text{or} \quad \xi = X(1 + \frac{1}{3} \mu^2 \cdot X^2) \{\mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta)\} \quad (2)$$

Consider (1). We have for  $D = 18^\circ$

$$\log \{\sin D \cdot (k \cot D - \eta)\} = \log \sin 18^\circ + \log (2116.058 - \eta).$$

Now if for  $\log (2116.058 - \eta)$  we write  $\log (2116.100 - \eta)$ , we can read the values of this term for  $\eta = 0.0, 0.1$ , etc., from the tables without interpolation: let  $D_0$  represent the corresponding value of  $D$ , and we have

$$\sin D (k \cot D - \eta) = \sin D \cdot \frac{k \cot D - \eta}{k \cot D_0 - \eta} (k \cot D_0 - \eta),$$

in the fractional term of which we may give  $\eta$  its mean value, zero, to a very close approximation, hence we get (2).

Table V. gives the values of  $\log (1 + \frac{1}{3} \mu^2 \cdot X^2)$ .

Table III. gives the values of  $[\text{const.} + \log \{\mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta)\}]$  for multiples of 0.1, and Table IV. gives the corrections for the fractional part of  $\eta$  beyond the first decimal place. Thus we have

$$\log \xi = \log X + \text{Table III.} + \text{Table IV.} + \text{Table V.}$$

(ii.) Without logarithms.—When  $X$  is constant we have  $\xi = M - N \cdot \eta$ , so that differences in  $\eta$  are constant. When  $\eta$  is constant we have  $\xi = MX (1 + \frac{1}{3}\mu^2 \cdot X^2)$ , so that the differences are not quite uniform; but if we have a sufficiently extended table for  $X$  we can safely interpolate. This calculation is provided for in Tables IX. and X., in which it is to be noted the above formula has been transformed from  $(X, \eta)$  to  $(X, Y)$ .

As an example take the star Washington 8814, whose standard co-ordinates are given on p. 191.

		R.A.	Declination.
Washington 8814 . . . . .		$23^h 55^m 55^s.23$	$-17^\circ 22' 58''.4$ (1900)
		$X = -12.2385$	$Y = -7.4053$
Y	$= -$	$7.4053$	$\log X = 11.087728$
Table I.	$= +$	$320$	Table III. $= 9.979681$
Table II.	$= -$	$12$	Table IV. $= 36$
			Table V. $= 46$
$\eta = \text{sum}$	$= -$	$7.3745$	$\log \xi = \text{sum} = 1.067491$
$\eta' = 13 + \eta = +$	$5.6255$		$\xi = -11.6813$
			$\xi' = 13 + \xi = + 1.3187$

By the second method we refer to Table IX., since  $Y$  is negative, which is headed  $\xi = X - \frac{1}{30} X - \frac{1}{10} X$ —following table, hence we have

	$X = -12.2385$
$-\frac{1}{30} X = +$	$.4079$
$-\frac{1}{10} X = +$	$.1113$
$-\text{Table} = +$	$.381$
$\xi = -11.6812$	

To obtain R.A. and Declination from the measures. First form the standard co-ordinates by means of the formulæ

$$\xi = x - 13 - Ax - By - C,$$

$$\eta = y - 13 - Dx - Ey - F.$$

Then by the first method we have

$$\log X = \log \xi + \text{Table VI.} + \text{Table VII.} + \text{Table VIII.},$$

where Tables VI., VII., VIII. correspond to Tables V., III., IV., respectively, and are to be similarly used.

With the value of  $X$  so obtained we can form  $\eta$ —Table I., and so obtain a sufficiently approximate value of  $Y$  to enter Table II.

As an example take the same star as before, viz. Hyderabad 26, on the first plate in the present volume.

$x$	=	1.515	$y$	=	5.140
$-Ax$	=+	.039	$-Dx$	=+	.007
$-By$	=-	.025	$-Ey$	=+	.131
$-C$	=-	.212	$-F$	=+	.348
<hr/>					
$\xi'$	=	1.317	$\eta'$	=	5.626
$\xi$	=-	11.683	$\eta$	=-	7.374
<hr/>					
$\log \xi$	=	1.067554	Table I.	=-	.0320
Table VI.	=+	11	Table II.	=+	.0019
Table VII.	=+	.020221			
Table VIII.	=+	5			
<hr/>					
sum	=	1.087791	$Y$	=-	7.404
$X$	=-	12.2403		=	37' 1".2.
	=	4 <sup>m</sup> 48.81			

$\therefore$  The R.A. and Declination for 1900.0 are—

$$23^{\text{h}} 55^{\text{m}} 55^{\text{s}}.19$$

$$17^{\circ} 22' 58''.8.$$

The small differences between these values and those given above are the differences between the Hyderabad photographic place and the Washington meridian place, and are the sum of—

- (1) Accidental or systematic errors in the meridian place.
- (2) Accidental or systematic errors in the photographic place, including the effect of (1) on the provisional constants.
- (3) Proper motion between the epochs of the two catalogues.

It is to be noted that the computation from  $(x, y)$  to  $(\xi, \eta')$  above is made to only three places. With the large scale value which has been inevitable with the Hyderabad plates it would require a little care to go to the fourth place accurately, and since the measures are only made to three places, the extra labour is scarcely justified, and will seldom make a difference of as much as one unit in the third place.

By the second method the computation for  $X$  is as follows :—

At the head of Table XI. we find  $X = \xi + \frac{1}{30} \cdot \xi + \frac{1}{100} \cdot \xi +$  following table.

$$\begin{aligned} \xi &= -11.6830 \\ \frac{1}{30} \xi &= - .3894 \\ \frac{1}{100} \xi &= - .1168 \\ \text{Table XI.} &= - .0510 \\ \hline X &= -12.2402 \end{aligned}$$

Small differences of one or two units in the fourth place, when different methods are used, are unavoidable, and may be neglected.

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# HYDERABAD ASTROGRAPHIC CATALOGUE

## T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC.  $-18^{\circ}$

BOTH WITH AND WITHOUT LOGARITHMS



TABLE I.—For  $D = -18^\circ$ .

$$\Delta_1 Y = \frac{\mu}{4} \sin 2D. X^2 = .0002137 X^2.$$

Always additive to Y to get  $\eta$ . Always subtractive from  $\eta$  to get Y.

$\Delta_2 Y$  is given in Table II.

X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$
0.0-0.4	.0000	4.0	.0034	7.7	.0127	11.4	.0278
0.5	.0001	4.1	.0036	7.8	.0130	11.5	.0283
0.6	.0001	4.2	.0038	7.9	.0133	11.6	.0288
0.7	.0001	4.3	.0040	8.0	.0137	11.7	.0293
0.8	.0001	4.4	.0041	8.1	.0140	11.8	.0298
0.9	.0002	4.5	.0043	8.2	.0144	11.9	.0303
1.0	.0002	4.6	.0045	8.3	.0147	12.0	.0308
1.1	.0003	4.7	.0047	8.4	.0151	12.1	.0313
1.2	.0003	4.8	.0049	8.5	.0154	12.2	.0318
1.3	.0004	4.9	.0051	8.6	.0158	12.3	.0323
1.4	.0004	5.0	.0053	8.7	.0162	12.4	.0329
1.5	.0005	5.1	.0056	8.8	.0166	12.5	.0334
1.6	.0006	5.2	.0058	8.9	.0169	12.6	.0339
1.7	.0006	5.3	.0060	9.0	.0173	12.7	.0345
1.8	.0007	5.4	.0062	9.1	.0177	12.8	.0350
1.9	.0008	5.5	.0065	9.2	.0181	12.9	.0356
2.0	.0009	5.6	.0067	9.3	.0185	13.0	.0361
2.1	.0009	5.7	.0070	9.4	.0189	13.1	.0367
2.2	.0010	5.8	.0072	9.5	.0193	13.2	.0373
2.3	.0011	5.9	.0074	9.6	.0197	13.3	.0378
2.4	.0012	6.0	.0077	9.7	.0201	13.4	.0384
2.5	.0013	6.1	.0080	9.8	.0205	13.5	.0390
2.6	.0015	6.2	.0082	9.9	.0209	13.6	.0395
2.7	.0016	6.3	.0085	10.0	.0214	13.7	.0401
2.8	.0017	6.4	.0088	10.1	.0218	13.8	.0407
2.9	.0018	6.5	.0090	10.2	.0222	13.9	.0413
3.0	.0019	6.6	.0093	10.3	.0227	14.0	.0419
3.1	.0021	6.7	.0096	10.4	.0231	14.1	.0425
3.2	.0022	6.8	.0099	10.5	.0236	14.2	.0431
3.3	.0023	6.9	.0102	10.6	.0240	14.3	.0437
3.4	.0025	7.0	.0105	10.7	.0245	14.4	.0443
3.5	.0026	7.1	.0108	10.8	.0249	14.5	.0449
3.6	.0028	7.2	.0111	10.9	.0254	14.6	.0456
3.7	.0029	7.3	.0114	11.0	.0259	14.7	.0462
3.8	.0031	7.4	.0117	11.1	.0263	14.8	.0468
3.9	.0033	7.5	.0120	11.2	.0268	14.9	.0475
		7.6	.0123	11.3	.0273	15.0	.0481

TABLE II.—For  $D = -18^\circ$ .

$$\Delta_2 Y = \frac{1}{6} \mu^2 (2Y^3 + 3X^2 Y \cos 2D) = .00000705 Y^3 + .00000856 X^2 Y.$$

Additive to Y with same sign as Y to get  $\eta$ . Additive to  $\eta$  with opposite sign to  $\eta$  to get Y.

Y. X. or $\eta$ .	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	10.5.	11.	11.5.	12.	12.5.	13.	13.5.	14.	14.5.	X. Y. or $\eta$ .
Unit = .0001 of a Rseau Interval.																					
R.I. 0.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	R.I. 0.5
1.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	1.0
1.5	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	3	3	1.5
2.0	0	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	3	4	2.0
2.5	0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	2.5
3.0	0	0	0	0	1	1	1	1	2	2	3	3	3	4	4	4	4	5	5	6	3.0
3.5	0	0	0	1	1	1	1	2	2	3	3	4	4	4	5	5	5	6	6	7	3.5
4.0	0	0	1	1	1	1	2	2	3	3	4	4	5	5	5	6	6	7	7	8	4.0
4.5	1	1	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	4.5
5.0	1	1	1	1	2	2	2	3	4	4	5	6	6	6	7	8	8	9	9	10	5.0
5.5	1	1	1	2	2	2	3	3	4	5	6	6	7	7	8	8	9	10	10	11	5.5
6.0	2	2	2	2	2	3	3	4	5	6	7	7	8	8	9	9	10	11	12	12	6.0
6.5	2	2	2	2	3	3	4	5	5	6	7	8	9	9	10	11	11	12	13	14	6.5
7.0	2	2	3	3	3	4	5	5	6	7	8	9	10	10	11	12	12	13	14	15	7.0
7.5	3	3	3	4	4	5	5	6	7	8	9	10	11	11	12	13	14	15	15	16	7.5
8.0	4	4	4	4	5	5	6	7	8	9	10	11	12	13	13	14	15	16	17	18	8.0
8.5	4	4	5	5	5	6	7	8	9	10	12	12	13	14	15	16	17	17	18	20	8.5
9.0	5	5	5	6	6	7	8	9	10	11	13	14	14	15	16	17	18	19	20	21	9.0
9.5	6	6	6	7	7	8	9	10	11	13	14	15	16	17	18	19	20	21	22	23	9.5
10.0	7	7	7	8	8	9	10	11	12	14	16	16	17	18	19	20	21	23	24	25	10.0
10.5	8	8	9	9	10	10	11	13	14	15	17	18	19	20	21	22	23	24	26	27	10.5
11.0	9	9	10	10	11	12	13	14	15	17	19	20	21	22	23	24	25	26	28	29	11.0
11.5	11	11	11	12	12	13	14	16	17	19	20	21	23	24	25	26	27	29	30	31	11.5
12.0	12	12	13	13	14	15	16	17	19	20	22	23	25	26	27	28	29	31	32	34	12.0
12.5	14	14	14	15	15	16	18	19	21	22	24	25	27	28	29	30	32	33	35	36	12.5
13.0	15	16	16	16	17	18	19	21	23	24	27	28	29	30	31	33	34	36	37	39	13.0

Add to log. X (with Table V.) to get log.  $\xi$ .

TABLE IV.

Add for remainder of  $\eta$ .

η.		·0.	·1.	·2.	·3.	·4.	·5.	·6.	·7.	·8.	·9.			·000.	·001.	·002.	·003.	·004.	·005.	·006.	·007.	·008.	·009.
+ 12	9·97	5716	5695	5674	5654	5633	5613	5592	5571	5551	5530		·09	2	2	1	1	1	1	1	0	0	0
+ 11	9·97	5922	5901	5881	5860	5840	5819	5798	5778	5757	5736		·08	4	4	4	3	3	3	3	2	2	2
+ 10	9·97	6128	6108	6087	6066	6046	6025	6005	5984	5963	5943		·07	6	6	6	5	5	5	5	4	4	4
+ 9	9·97	6334	6314	6293	6273	6252	6231	6211	6190	6170	6149		·06	8	8	8	7	7	7	7	6	6	6
+ 8	9·97	6541	6520	6499	6479	6458	6438	6411	6390	6370	6355		·05	10	10	10	9	9	9	9	9	8	8
+ 7	9·97	6747	6726	6705	6685	6664	6644	6623	6602	6582	6561		·04	12	12	12	12	11	11	11	11	11	10
+ 6	9·97	6952	6932	6911	6891	6870	6849	6829	6808	6788	6767		·03	14	14	14	14	13	13	13	13	13	12
+ 5	9·97	7158	7138	7117	7096	7076	7055	7035	7014	6994	6973		·02	16	16	16	16	15	15	15	15	15	14
+ 4	9·97	7364	7343	7323	7302	7282	7261	7240	7220	7199	7179		·01	18	18	18	18	17	17	17	17	17	16
+ 3	9·97	7569	7549	7528	7508	7487	7467	7446	7426	7405	7384		·00	20	20	20	20	19	19	19	19	19	18
+ 2	9·97	7775	7754	7734	7713	7693	7672	7652	7631	7611	7590												
+ 1	9·97	7980	7960	7939	7919	7898	7878	7857	7837	7816	7795												
+ 0	9·97	8186	8165	8144	8124	8103	8083	8062	8042	8021	8001												

Unit=·000001.

Add to log.  $X$  (with Table V.) to get log.  $\xi$ .

TABLE IV.

Add for remainder of  $\eta$ .

[illegible]

*All Zones.*For  $D = -18^\circ$ .

TABLE V.

$$\frac{1}{8} \mu^2 \log_{10} e \times X^2 = .000000306 X^2.$$

Add to log. X (with Tables III., IV.)  
to get log.  $\xi$ .

X.	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	57	58	59
14	60	61	62	63	63	64	65	66	67	68
15	69	70	71	72	73	73	74	75	76	77

Unit = .000001.

TABLE VI.

$$\text{Const.} - \frac{1}{8} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2 \\ = .000057 - .000000339 \xi^2.$$

Add to log.  $\xi$  to get log. X.

$\xi$ .	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
0	57	57	57	57	57	57	57	57	57	57
1	57	57	57	56	56	56	56	56	56	56
2	56	56	55	55	55	55	55	55	54	54
3	54	54	54	53	53	53	53	52	52	52
4	52	51	51	51	50	50	50	50	49	49
5	49	48	48	47	47	47	46	46	46	45
6	45	44	44	44	43	43	42	42	41	41
7	40	40	39	39	38	38	37	37	36	36
8	35	35	34	34	33	33	32	31	31	30
9	30	29	28	28	27	26	26	25	24	24
10	23	22	22	21	20	20	19	18	17	17
11	16	15	15	14	13	12	11	11	10	9
12	8	7	6	6	5	4	3	2	1	1

Unit = .000001.

For  $D = -18^\circ$  and  $\eta$  Positive.

Add to log.  $\xi$  (with Table VI.) to get log.  $X$ .

TABLE VII.

Argument,  $\eta$  to  $0.1$ . Not to be interpolated.

TABLE VIII.

Add for Remainder of  $\eta$ .

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
+12	0.02	4186	4207	4228	4248	4269	4289	4310	4331	4351	4372			.09	39	39	39	39	40	40	40	40	41
+11	0.02	3980	4001	4021	4042	4062	4083	4104	4124	4145	4166			.08	37	37	37	37	38	38	38	38	39
+10	0.02	3774	3794	3815	3836	3856	3877	3897	3918	3939	3959			.07	35	35	35	35	36	36	36	36	37
+9	0.02	3568	3588	3609	3629	3650	3671	3691	3712	3732	3753			.06	33	33	33	33	33	34	34	34	34
+8	0.02	3361	3382	3403	3423	3444	3464	3485	3506	3526	3547			.05	31	31	31	31	31	32	32	32	32
+7	0.02	3155	3176	3197	3217	3238	3258	3279	3300	3320	3341			.04	29	29	29	29	29	30	30	30	30
+6	0.02	2950	2970	2991	3011	3032	3053	3073	3094	3114	3135			.03	26	27	27	27	27	28	28	28	28
+5	0.02	2744	2764	2785	2806	2826	2847	2867	2888	2908	2929			.02	24	25	25	25	25	26	26	26	26
+4	0.02	2538	2559	2579	2600	2620	2641	2662	2682	2703	2723			.01	22	23	23	23	23	24	24	24	24
+3	0.02	2333	2353	2374	2394	2415	2435	2456	2476	2497	2518			.00	20	21	21	21	21	22	22	22	22
+2	0.02	2127	2148	2168	2189	2209	2230	2250	2271	2291	2312												
+1	0.02	1922	1942	1963	1983	2004	2024	2045	2065	2086	2107												
+0	0.02	1716	1737	1758	1778	1799	1819	1840	1860	1881	1901												

Unit=.000001.

For  $D = -18^\circ$  and  $\eta$  Negative.

Add to log.  $\xi$  (with Table VI.) to get log.  $X$ .

TABLE VII.

Argument,  $\eta$  to  $0.1$ . Not to be interpolated.

TABLE VIII.

Add for Remainder of  $\eta$ .

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
-0	0.02	1716	1696	1675	1655	1634	1614	1593	1573	1552	1532			.00	20	20	20	20	19	19	19	19	18
-1	0.02	1511	1491	1470	1450	1429	1409	1388	1368	1347	1327			.01	18	18	18	18	17	17	17	17	16
-2	0.02	1306	1286	1265	1245	1224	1204	1183	1163	1142	1122			.02	16	16	16	16	15	15	15	15	14
-3	0.02	1101	1081	1060	1040	1019	0999	0978	0958	0937	0917			.03	14	14	14	14	13	13	13	13	12
-4	0.02	0896	0876	0855	0835	0814	0794	0773	0753	0732	0712			.04	12	12	12	12	11	11	11	11	10
-5	0.02	0692	0671	0651	0630	0610	0589	0569	0548	0528	0507			.05	10	10	10	10	9	9	9	9	8
-6	0.02	0487	0466	0446	0425	0405	0384	0364	0344	0323	0303			.06	8	8	8	8	7	7	7	7	6
-7	0.02	0282	0262	0241	0221	0200	0180	0159	0139	0119	0098			.07	6	6	6	6	5	5	5	5	4
-8	0.02	0078	0057	0037	0016									.08	4	4	4	4	3	3	3	3	2
-8	0.01					9996	9975	9955	9935	9914	9894			.09	2	2	2	2	1	1	1	1	0
-9	0.01	9873	9853	9832	9812	9792	9771	9751	9730	9710	9689												
-10	0.01	9669	9649	9628	9608	9587	9567	9546	9526	9506	9485												
-11	0.01	9465	9444	9424	9403	9383	9363	9342	9322	9301	9281												
-12	0.01	9261	9240	9220	9199	9179	9159	9138	9118	9097													

Unit=.000001.



TABLE IX.—For  $D = -18^\circ$ . $\mathbf{Y}$  Negative.

$$\xi = X - \frac{1}{30}X - \frac{1}{110}X - \text{following table.}$$

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
-13.0	0007	0014	0020	0027	0033	0040	0046	0051	0057	0062	0067	0071	0075	0079	0082	-13.0
-12.9	0007	0014	0022	0028	0035	0042	0049	0055	0061	0067	0072	0077	0081	0085	0089	-12.9
8	008	015	023	030	038	045	052	058	065	071	077	082	087	092	096	8
7	008	016	024	032	040	048	055	062	069	076	082	088	093	098	102	7
6	009	017	026	034	042	050	058	066	073	080	087	093	099	104	109	6
5	009	018	027	036	044	053	061	069	077	085	092	098	105	111	116	5
4	010	019	028	038	047	056	064	073	081	089	097	104	110	117	122	4
3	010	020	030	039	049	058	068	076	185	094	102	109	116	123	129	3
2	010	021	031	041	051	061	071	080	089	098	106	114	122	129	136	2
1	011	021	032	043	053	064	074	084	093	103	111	120	128	136	143	1
-12.0	011	022	034	045	056	066	077	087	097	107	116	125	134	142	150	-12.0
-11.9	0012	0023	0035	0046	0058	0069	0080	0091	0101	0112	0121	0131	0140	0148	0156	-11.9
8	012	024	036	048	060	072	083	094	105	116	126	136	145	155	163	8
7	013	025	038	050	062	074	086	098	109	121	131	141	151	161	170	7
6	013	026	039	052	065	077	090	102	113	125	136	147	157	167	176	6
5	014	027	040	054	067	080	093	105	118	130	141	152	163	174	183	5
4	014	028	042	056	069	083	096	109	122	134	146	158	169	180	190	4
3	014	029	043	057	071	085	099	112	126	139	151	163	175	186	197	3
2	015	030	044	059	074	088	102	116	130	143	156	168	180	192	204	2
1	015	030	046	061	076	091	105	120	134	148	161	174	186	199	210	1
-11.0	016	031	047	063	078	093	108	123	138	152	166	179	192	205	217	-11.0
-10.9	0016	0032	0048	0064	0080	0096	0112	0127	0142	0157	0171	0185	0198	0211	0224	-10.9
8	017	033	050	066	083	099	115	130	146	161	176	190	204	218	230	8
7	017	034	051	068	085	102	118	134	150	166	181	195	210	224	237	7
6	018	035	052	070	087	104	121	138	154	170	186	201	216	230	244	6
5	018	036	054	072	089	107	124	141	158	174	191	206	222	236	251	5
4	018	037	055	073	092	110	127	145	162	179	196	212	227	243	257	4
3	019	038	056	075	094	112	130	148	166	183	200	217	233	249	264	3
2	019	039	058	077	096	115	134	152	170	188	205	222	239	255	271	2
1	020	040	059	079	098	118	137	156	174	192	210	228	245	262	278	1
-10.0	020	040	061	081	100	120	140	159	178	197	215	233	251	268	284	-10.0
-9.9	0021	0041	0062	0082	0103	0123	0143	0163	0182	0201	0220	0238	0256	0274	0291	-9.9
8	021	042	063	084	105	126	146	166	186	206	225	244	262	280	298	8
7	022	043	065	086	107	128	149	170	190	210	230	249	268	287	305	7
6	022	044	066	088	110	131	152	174	194	215	235	255	274	293	311	6
5	022	045	067	090	112	134	156	177	198	219	240	260	280	299	318	5
4	023	046	069	091	114	137	159	181	202	224	245	266	286	306	325	4
3	023	047	070	093	116	139	162	184	206	228	250	271	292	312	332	3
2	024	048	071	095	118	142	165	188	210	233	255	276	297	318	338	2
1	024	048	073	097	121	145	168	192	215	237	260	282	303	324	345	1
-9.0	025	049	074	099	123	147	171	195	219	242	265	287	309	331	352	-9.0
-8.9	0025	0050	0075	0100	0125	0150	0175	0199	0223	0246	0270	0292	0315	0337	0359	-8.9
8	026	051	077	102	128	153	178	202	227	251	275	298	321	343	365	8
7	026	052	078	104	130	156	181	206	231	255	280	303	327	350	372	7
6	027	053	080	106	132	158	184	210	235	260	285	309	333	356	379	6
5	027	054	081	108	134	161	187	213	239	264	290	314	338	362	386	5
4	028	055	082	109	136	164	190	217	243	269	295	320	344	369	393	4
3	028	056	084	111	139	166	193	220	247	273	299	325	350	375	399	3
2	028	057	085	113	141	169	196	224	251	278	304	330	356	381	406	2
1	029	058	086	115	143	172	200	228	255	282	309	336	362	388	413	1
-8.0	029	058	088	117	145	174	203	231	259	287	314	341	368	394	420	-8.0

TABLE IX. *continued.*—For  $D = -18^\circ$ . $\mathbf{Y}$  Negative.  $\xi = X - \frac{1}{30}X - \frac{1}{110}X$ —following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 7°9	0030	0059	0089	0118	0148	0177	0206	0235	0263	0291	0319	0346	0373	0400	0426	— 7°9
8	030	060	090	120	150	180	209	238	267	296	324	352	379	406	433	8
7	031	061	092	122	152	182	212	242	271	300	329	357	385	413	440	7
6	031	062	093	124	154	185	216	246	275	305	334	363	391	419	446	6
5	032	063	094	126	157	188	219	249	279	309	339	368	397	425	453	5
4	032	064	096	127	159	190	222	253	284	314	344	374	403	432	460	4
3	032	065	097	129	161	193	225	256	288	318	349	379	409	438	467	3
2	033	066	098	131	163	196	228	260	292	323	354	384	414	444	474	2
1	033	066	100	133	166	199	231	264	296	327	359	390	420	451	480	1
— 7°0	034	067	101	135	168	201	234	267	300	332	364	395	426	457	487	— 7°0
— 6°9	0034	0068	0102	0136	0170	0204	0238	0271	0304	0336	0369	0400	0432	0463	0494	— 6°9
8	035	069	104	138	172	207	241	274	308	341	374	406	438	470	500	8
7	035	070	105	140	175	209	244	278	312	345	379	411	444	476	507	7
6	036	071	106	142	177	212	247	282	316	350	384	417	450	482	514	6
5	036	072	108	144	179	215	250	285	320	354	388	422	455	488	520	5
4	036	073	109	145	181	217	253	289	324	359	393	427	461	495	527	4
3	037	074	110	147	184	220	256	292	328	363	398	433	467	501	534	3
2	037	075	112	149	186	223	260	296	332	368	403	438	473	507	541	2
1	038	076	113	151	188	226	263	299	336	372	408	444	479	514	548	1
— 6°0	038	076	114	152	190	228	266	303	340	377	413	449	484	520	554	— 6°0
— 5°9	0039	0077	0116	0154	0193	0231	0269	0307	0344	0381	0418	0454	0490	0526	0561	— 5°9
8	039	078	117	156	195	234	272	310	348	386	423	460	496	532	568	8
7	040	079	118	158	197	236	275	314	352	390	428	465	502	539	574	7
6	040	080	120	160	199	239	279	317	356	395	433	471	508	545	581	6
5	040	081	121	162	202	242	282	321	360	399	438	476	514	551	588	5
4	041	082	123	163	204	244	285	325	364	404	443	481	520	558	595	4
3	041	083	124	165	206	247	288	328	368	408	448	487	526	564	602	3
2	042	084	125	167	208	250	291	332	372	413	453	492	531	570	608	2
1	042	084	127	169	211	252	294	335	376	417	458	498	537	576	615	1
— 5°0	043	085	128	171	213	255	297	339	381	422	463	503	543	583	622	— 5°0
— 4°9	0043	0086	0129	0172	0215	0258	0300	0343	0385	0426	0468	0508	0549	0589	0628	— 4°9
8	044	087	131	174	217	261	304	346	389	431	472	514	555	595	635	8
7	044	088	132	176	220	263	307	350	393	435	477	519	560	602	642	7
6	045	089	133	178	222	266	310	353	397	440	482	525	566	608	649	6
5	045	090	135	180	224	269	313	357	401	444	487	530	572	614	655	5
4	045	091	136	181	226	271	316	361	405	449	492	535	578	620	662	4
3	046	092	137	183	229	274	319	364	409	453	497	541	584	627	669	3
2	046	093	139	185	231	277	322	368	413	458	502	546	590	633	676	2
1	047	094	140	187	233	280	326	371	417	462	507	552	596	639	682	1
— 4°0	047	094	142	188	235	282	329	375	421	467	512	557	601	646	689	— 4°0
— 3°9	0048	0095	0143	0190	0238	0285	0332	0378	0425	0471	0517	0562	0607	0652	0696	— 3°9
8	048	096	144	192	240	288	335	382	429	476	522	568	613	658	703	8
7	049	097	146	194	242	290	338	386	433	480	527	573	619	665	709	7
6	049	098	147	196	244	293	341	389	437	485	532	579	625	671	716	6
5	050	099	148	198	247	296	344	393	441	489	537	584	631	677	723	5
4	050	100	150	199	249	298	348	396	445	494	542	589	637	683	730	4
3	050	101	151	201	251	301	351	400	449	498	547	595	642	690	736	3
2	051	102	152	203	253	304	354	404	453	503	552	600	648	696	743	2
1	051	102	154	205	256	306	357	407	457	507	557	605	654	702	750	1
— 3°0	052	103	155	206	258	309	360	411	461	512	561	611	660	709	757	— 3°0

TABLE IX. *continued.*—For  $D = -18^\circ$ .**Y Negative.**

$$\xi = X - \frac{1}{30} X - \frac{1}{110} X - \text{following table.}$$

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 2.9	0052	0104	0156	0208	0260	0312	0363	0414	0465	0516	0566	0616	0666	0715	0763	— 2.9
8	053	105	158	210	262	314	366	418	470	521	571	622	672	721	770	8
7	053	106	159	212	265	317	370	422	474	525	576	627	677	727	777	7
6	054	107	160	214	267	320	373	425	478	530	581	632	683	734	784	6
5	054	108	162	215	269	323	376	429	482	534	586	638	689	740	790	5
4	054	109	163	217	271	325	379	432	486	539	591	643	695	746	797	4
3	055	110	164	219	274	328	382	436	490	543	596	649	701	753	804	3
2	055	110	166	221	276	331	385	440	494	548	601	654	707	759	811	2
1	056	111	167	223	278	333	388	443	498	552	606	659	712	765	817	1
— 2.0	056	112	168	224	280	336	392	447	502	557	611	665	718	772	824	— 2.0
— 1.9	0057	0113	0170	0226	0283	0339	0395	0450	0506	0561	0616	0670	0724	0778	0831	— 1.9
8	057	114	171	228	285	342	398	454	510	566	621	676	730	784	838	8
7	058	115	172	230	287	344	401	458	514	570	626	681	736	790	844	7
6	058	116	174	232	289	347	404	461	518	575	631	686	742	797	851	6
5	058	117	175	233	292	350	407	465	522	579	636	692	747	803	858	5
4	059	118	176	235	294	352	410	468	526	584	641	697	753	809	864	4
3	059	119	178	237	296	355	414	472	530	588	646	702	759	815	871	3
2	060	120	179	239	298	358	417	476	534	593	650	708	765	822	878	2
1	060	120	180	241	301	360	420	479	538	597	655	713	771	828	885	1
— 1.0	061	121	182	242	303	363	423	483	542	602	660	719	777	834	891	— 1.0
— 0.9	0061	0122	0183	0244	0305	0366	0426	0486	0546	0606	0665	0724	0782	0841	0898	— 0.9
8	062	123	185	246	307	368	429	490	550	610	670	729	788	847	905	8
7	062	124	186	248	310	371	433	494	554	615	675	735	794	853	912	7
6	062	125	187	250	312	374	436	497	558	619	680	740	800	860	918	6
5	063	126	189	251	314	377	439	501	562	624	685	746	806	866	925	5
4	063	127	190	253	316	379	442	504	567	628	690	751	812	872	932	4
3	064	128	191	255	318	382	445	508	571	633	695	756	818	878	939	3
2	064	128	193	257	321	385	448	512	575	637	700	762	823	885	945	2
1	065	129	194	259	323	387	451	515	579	642	705	767	829	891	952	1
— 0.0	0065	0130	0195	0260	0325	0390	0454	0519	0583	0646	0710	0773	0835	0897	0959	— 0.0

TABLE X.—For  $D = -18^\circ$ .

Y Positive.

 $\xi = X - \frac{1}{30}X - \frac{1}{70}X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
1-0-0	0013	0026	0040	0053	0066	0078	0091	0103	0115	0127	0138	0149	0160	0170	0180	+ 0-0
1	014	027	041	054	068	081	094	107	119	131	143	155	166	176	186	1
2	014	028	042	056	070	084	097	110	123	136	148	160	171	183	193	2
3	015	029	044	058	072	086	100	114	127	140	153	165	177	189	200	3
4	015	030	045	060	074	089	103	118	131	145	158	171	183	195	206	4
5	016	031	046	062	077	092	107	121	135	149	163	176	189	201	213	5
6	016	032	048	063	079	094	110	125	140	154	168	182	195	208	220	6
7	016	033	049	065	081	097	113	128	144	158	173	187	201	214	227	7
8	017	034	050	067	083	100	116	132	148	163	178	192	206	220	234	8
1-0-9	017	034	052	069	086	103	119	136	152	167	183	198	212	227	240	+ 0-9
1-1-0	0018	0035	0053	0071	0088	0105	0122	0139	0156	0172	0188	0203	0218	0233	0247	+ 1-0
1	018	036	054	072	090	108	126	143	160	176	193	208	224	239	254	1
2	019	037	056	074	092	111	129	146	164	181	198	214	230	245	260	2
3	019	038	057	076	095	113	132	150	168	185	203	219	236	252	267	3
4	020	039	058	078	097	116	135	154	172	190	208	225	242	258	274	4
5	020	040	060	080	099	119	138	157	176	194	213	230	247	264	281	5
6	020	041	061	081	101	122	141	161	180	199	218	235	253	271	288	6
7	021	042	062	083	104	124	144	164	184	203	222	241	259	277	294	7
8	021	043	064	085	106	127	148	168	188	208	227	246	265	283	301	8
1-1-9	022	044	065	087	108	130	151	172	192	212	232	252	271	290	308	+ 1-9
1-2-0	0022	0044	0066	0089	0110	0132	0154	0175	0196	0217	0237	0257	0277	0296	0314	+ 2-0
1	023	045	068	090	113	135	157	179	200	221	242	262	282	302	321	1
2	023	046	069	092	115	138	160	182	204	226	247	268	288	308	328	2
3	024	047	071	094	117	140	163	186	208	230	252	273	294	315	335	3
4	024	048	072	096	119	143	166	190	212	235	257	279	300	321	342	4
5	024	049	073	098	122	146	170	193	216	239	262	284	306	327	348	5
6	025	050	075	099	124	148	173	197	220	244	267	289	312	334	355	6
7	025	051	076	101	126	151	176	200	224	248	272	295	318	340	362	7
8	026	052	077	103	128	154	179	204	228	253	277	300	323	346	368	8
1-2-9	026	052	079	105	131	156	182	207	232	257	282	306	329	352	375	+ 2-9
1-3-0	0027	0053	0080	0106	0133	0159	0185	0211	0237	0262	0287	0311	0335	0359	0382	+ 3-0
1	027	054	081	108	135	162	188	215	241	266	292	316	341	365	389	1
2	028	055	083	110	137	165	192	218	245	271	296	322	347	371	395	2
3	028	056	084	112	140	167	195	222	249	275	301	327	353	378	402	3
4	028	057	085	114	142	170	198	225	253	280	306	333	358	384	409	4
5	029	058	087	116	144	173	201	229	257	284	311	338	364	390	416	5
6	029	059	088	117	146	175	204	233	261	289	316	343	370	397	422	6
7	030	060	090	119	149	178	207	236	265	293	321	349	376	403	429	7
8	030	061	091	121	151	181	210	240	269	298	326	354	382	409	436	8
1-3-9	031	062	092	123	153	184	214	243	273	302	331	360	388	416	443	+ 3-9
1-4-0	0031	0062	0094	0124	0155	0186	0217	0247	0277	0307	0336	0365	0393	0422	0449	+ 4-0
1	032	063	095	126	158	189	220	250	281	311	341	370	399	428	456	1
2	032	064	096	128	160	192	223	254	285	316	346	376	405	434	463	2
3	033	065	098	130	162	194	226	258	289	320	351	381	411	440	469	3
4	033	066	099	132	164	197	229	261	293	325	356	386	417	447	476	4
5	034	067	100	134	167	200	232	265	297	329	361	392	423	453	483	5
6	034	068	102	135	169	202	236	268	301	334	366	397	428	459	490	6
7	034	069	103	137	171	205	239	272	305	338	371	403	434	466	496	7
8	035	070	104	139	173	208	242	276	309	343	376	408	440	472	503	8
1-4-9	035	070	106	141	176	211	245	279	313	347	381	414	446	478	510	+ 4-9

TABLE X. *continued.*—For  $D = -18^\circ$ .

Y Positive.

$$\xi = X - \frac{1}{30} X - \frac{1}{70} X - \text{following table.}$$

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+ 5.0	0036	0071	0107	0142	0178	0213	0248	0283	0318	0352	0385	0419	0452	0485	0517	5.0
1	036	072	108	144	180	216	251	286	322	356	390	424	458	491	523	1
2	037	073	110	146	182	219	254	290	326	361	395	430	464	497	530	2
3	037	074	111	148	185	221	258	294	330	365	400	435	469	504	537	3
4	038	075	112	150	187	224	261	297	334	370	405	440	475	510	544	4
5	038	076	114	152	189	227	264	301	338	374	410	446	481	516	550	5
6	038	077	115	153	191	229	267	304	342	379	415	451	487	522	557	6
7	039	078	116	155	194	232	270	308	346	383	420	457	493	529	564	7
8	039	078	118	157	196	235	273	312	350	388	425	462	499	535	570	8
+ 5.9	040	079	119	159	198	237	276	315	354	392	430	467	504	541	577	5.9
+ 6.0	0040	0080	0120	0160	0200	0240	0280	0319	0358	0397	0435	0473	0510	0548	0584	6.0
1	041	081	122	162	203	243	283	322	362	401	440	478	516	554	591	1
2	041	082	123	164	205	246	286	326	366	406	445	484	522	560	598	2
3	042	083	124	166	207	248	289	330	370	410	450	489	528	566	604	3
4	042	084	126	168	209	251	292	333	374	415	455	494	534	573	611	4
5	042	085	127	170	212	254	295	337	378	419	460	500	540	579	618	5
6	043	086	129	171	214	256	298	340	382	424	465	505	545	585	624	6
7	043	087	130	173	216	259	302	344	386	428	470	510	551	592	631	7
8	044	088	131	175	218	262	305	348	390	433	475	516	557	598	638	8
+ 6.9	044	088	133	177	221	264	308	351	394	437	480	521	563	604	645	6.9
+ 7.0	0045	0089	0134	0178	0223	0267	0311	0355	0398	0442	0484	0527	0569	0610	0651	7.0
1	045	090	135	180	225	270	314	358	402	446	489	532	575	617	658	1
2	046	091	137	182	227	272	317	362	406	451	494	537	580	623	665	2
3	046	092	138	184	230	275	321	366	410	455	499	543	586	629	672	3
4	046	093	139	186	232	278	324	369	414	460	504	548	592	636	678	4
5	047	094	141	187	234	281	327	373	419	464	509	554	598	642	685	5
6	047	095	142	189	236	283	330	376	423	468	514	559	604	648	692	6
7	048	096	143	191	238	286	333	380	427	473	519	564	610	654	699	7
8	048	096	145	193	241	289	336	384	431	477	524	570	615	661	705	8
+ 7.9	049	097	146	195	243	291	339	387	435	482	529	575	621	667	712	7.9
+ 8.0	0049	0098	0147	0196	0245	0294	0343	0391	0439	0486	0534	0581	0627	0673	0719	8.0
1	050	099	149	198	248	297	346	394	443	491	539	586	633	680	726	1
2	050	100	150	200	250	300	349	398	447	495	544	591	639	686	732	2
3	051	101	152	202	252	302	352	402	451	500	549	597	645	692	739	3
4	051	102	153	204	254	305	355	405	455	504	554	602	650	698	746	4
5	052	103	154	205	256	308	358	409	459	509	559	608	656	705	753	5
6	052	104	156	207	259	310	362	412	463	513	564	613	662	711	759	6
7	052	105	157	209	261	313	365	416	467	518	569	618	668	717	766	7
8	053	106	158	211	263	316	368	420	471	522	573	624	674	724	773	8
+ 8.9	053	106	160	213	266	318	371	423	475	527	578	629	680	730	780	8.9
+ 9.0	0054	0107	0161	0214	0268	0321	0374	0427	0479	0531	0583	0635	0686	0736	0786	9.0
1	054	108	162	216	270	324	377	430	483	536	588	640	692	743	793	1
2	055	109	164	218	272	326	380	434	487	540	593	645	697	749	800	2
3	055	110	165	220	274	329	384	438	491	545	598	651	703	755	807	3
4	056	111	166	222	277	332	387	441	496	549	603	656	709	762	813	4
5	056	112	168	223	279	334	390	445	500	554	608	662	715	768	820	5
6	056	113	169	225	281	337	393	448	504	558	613	667	721	774	827	6
7	057	114	170	227	283	340	396	452	508	563	618	672	726	780	834	7
8	057	114	172	229	286	343	399	456	512	567	623	678	732	787	840	8
+ 9.9	058	115	173	231	288	345	402	459	516	572	628	683	738	793	847	9.9

TABLE X. *continued.*—For  $D = -18^\circ$ .

Y Positive.

 $\xi = X - \frac{1}{30}X - \frac{1}{70}X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+10.0	0058	0116	0174	0232	0290	0348	0406	0463	0520	0576	0633	0688	0744	0799	0854	+10.0
1	059	117	176	234	292	351	409	466	524	581	638	694	750	806	860	1
2	059	118	177	236	295	353	412	470	528	585	643	699	756	812	867	2
3	060	119	178	238	297	356	415	474	532	590	648	705	762	818	874	3
4	060	120	180	240	299	359	418	477	536	594	652	710	767	824	881	4
5	060	121	181	241	301	362	421	481	540	599	657	716	773	831	888	5
6	061	122	182	243	304	364	424	484	544	603	662	721	779	837	894	6
7	061	123	184	245	306	367	428	488	548	608	667	726	785	844	901	7
8	062	124	185	247	308	370	431	491	552	612	672	732	791	850	908	8
+10.9	062	124	187	249	310	372	434	495	556	617	677	737	797	856	914	+10.9
+11.0	0063	0125	0188	0250	0313	0375	0437	0499	0560	0621	0682	0742	0802	0862	0921	+11.0
1	063	126	189	252	315	378	440	502	564	626	687	748	808	868	928	1
2	064	127	191	254	317	380	443	506	568	630	692	753	814	875	935	2
3	064	128	192	256	319	383	446	510	572	635	697	759	820	881	942	3
4	064	129	193	258	322	386	450	513	576	639	702	764	826	887	948	4
5	065	130	195	259	324	388	453	517	580	644	707	769	832	894	955	5
6	065	131	196	261	326	391	456	520	584	648	712	775	837	900	962	6
7	066	132	197	263	328	394	459	524	588	653	717	780	843	906	968	7
8	066	132	199	265	331	396	462	527	592	657	722	786	849	912	975	8
+11.9	067	133	200	267	333	399	465	531	597	662	727	791	855	919	982	+11.9
+12.0	0067	0134	0201	0268	0335	0402	0468	0535	0601	0666	0732	0796	0861	0925	0989	+12.0
1	068	135	203	270	337	405	472	538	605	671	737	802	867	931	995	1
2	068	136	204	272	340	407	475	542	609	675	742	807	873	938	1002	2
3	069	137	205	274	342	410	478	545	613	680	746	813	878	944	1009	3
4	069	138	207	276	344	413	481	549	617	684	751	818	884	950	1016	4
5	069	139	208	277	346	415	484	553	621	689	756	823	890	957	1022	5
6	070	140	210	279	349	418	487	556	625	693	761	829	896	963	1029	6
7	070	141	211	281	351	421	490	560	629	698	766	834	902	969	1036	7
8	071	142	212	283	353	424	494	563	633	702	771	840	908	976	1043	8
+12.9	071	142	214	284	355	426	497	567	637	707	776	845	913	982	1049	+12.9
+13.0	0072	0143	0215	0286	0358	0429	0500	0570	0641	0711	0781	0850	0919	0988	1056	+13.0

TABLE XI.—For  $D = -18^\circ$ .

$\eta$  Negative.  $X = \xi + \frac{1}{30}\xi + \frac{1}{100}\xi + \text{following table.}$

$\eta$ .	$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .	$\eta$ .
—13.0	0017	0034	0051	0068	0084	0101	0117	0133	0148	0163	0177	0191	0204	0219	—13.0	8
—12.9	0018	0035	0053	0070	0087	0104	0120	0136	0152	0168	0183	0197	0211	0225	—12.9	7
8	018	036	054	072	089	107	124	140	157	173	188	203	217	232	8	6
7	019	037	056	074	092	110	127	144	161	178	193	209	223	238	7	5
6	019	038	057	076	094	113	131	148	166	182	199	215	230	245	6	4
5	020	039	058	078	097	116	134	152	170	187	204	221	236	251	5	3
4	020	040	060	080	099	118	138	156	174	192	210	226	242	258	4	2
3	020	041	061	082	102	121	141	160	179	197	215	232	249	265	3	1
2	021	042	063	084	104	124	144	164	183	202	220	238	255	271	2	0
1	021	043	064	086	107	127	148	168	188	207	226	244	262	280	1	—12.0
—12.0	022	044	066	088	109	130	151	172	192	212	231	250	268	287	—12.0	8
—11.9	0022	0045	0067	0090	0112	0133	0155	0176	0197	0217	0237	0256	0275	0294	—11.9	7
8	023	046	069	092	114	136	158	180	201	222	242	262	281	301	8	6
7	023	047	070	094	116	139	162	184	205	227	248	268	287	307	7	5
6	024	048	072	095	119	142	165	188	210	232	253	274	294	314	6	4
5	024	049	073	097	121	145	168	192	214	236	258	280	300	320	5	3
4	025	050	075	099	124	148	172	196	219	241	264	285	306	326	4	2
3	025	051	076	101	126	151	175	199	223	246	269	291	313	334	3	1
2	026	052	078	103	129	154	179	203	228	251	274	297	319	341	2	0
1	026	053	079	105	131	157	182	207	232	256	280	303	326	349	1	—11.0
—11.0	027	054	081	107	134	160	186	211	236	261	285	309	332	355	—11.0	8
—10.9	0027	0055	0082	0109	0136	0163	0189	0215	0241	0266	0291	0315	0338	0361	—10.9	7
8	028	056	084	111	139	166	193	219	245	271	296	321	345	368	8	6
7	028	057	085	113	141	169	196	223	250	276	302	327	351	374	7	5
6	029	058	086	115	144	172	200	227	254	281	307	333	358	381	6	4
5	029	059	088	117	146	175	203	231	258	286	312	339	364	388	5	3
4	030	060	089	119	148	178	206	235	263	291	318	344	370	394	4	2
3	030	061	091	121	151	180	210	239	267	296	323	350	377	401	3	1
2	031	062	092	123	153	183	213	243	272	300	329	356	383	407	2	0
1	031	063	094	125	156	186	217	247	276	305	334	362	390	414	1	—10.0
—10.0	032	064	095	127	158	189	220	251	281	310	340	368	396	424	—10.0	8
—9.9	0032	0065	0097	0129	0161	0192	0224	0254	0285	0315	0345	0374	0402	0430	—9.9	7
8	033	066	098	131	163	195	227	258	290	320	350	380	409	438	8	6
7	033	067	100	133	166	198	230	262	294	325	356	386	415	444	7	5
6	034	068	101	135	168	201	234	266	298	330	361	392	422	451	6	4
5	034	068	103	137	171	204	237	270	303	335	366	398	428	457	5	3
4	035	069	104	139	173	207	241	274	307	340	372	404	434	463	4	2
3	035	070	106	141	176	210	244	278	312	345	377	410	441	470	3	1
2	036	071	107	143	178	213	248	282	316	350	383	415	447	476	2	0
1	036	072	109	145	180	216	251	286	320	355	388	421	454	483	1	—9.0
—9.0	037	073	110	147	183	219	255	290	325	360	394	427	460	492	—9.0	8
—8.9	0037	0074	0112	0149	0185	0222	0258	0294	0329	0364	0399	0433	0466	0500	—8.9	7
8	038	075	113	150	188	225	262	298	334	369	404	439	473	507	8	6
7	038	076	115	152	190	228	265	302	338	374	410	445	479	513	7	5
6	039	077	116	154	193	231	269	306	343	379	415	451	486	520	6	4
5	039	078	118	156	195	234	272	310	347	384	421	457	492	526	5	3
4	040	079	119	158	198	237	276	314	352	389	426	463	498	532	4	2
3	040	080	120	160	200	240	279	318	356	394	432	469	505	540	3	1
2	041	081	122	162	203	243	282	322	360	399	437	475	511	546	2	0
1	041	082	123	164	205	246	286	326	365	404	442	480	518	554	1	—8.0
—8.0	042	083	125	166	208	248	289	329	369	409	448	486	524	560	—8.0	8



TABLE XI. *continued.*—For  $D = -18^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{30}\xi + \frac{1}{100}\xi +$  following table.

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .
$\eta$ .														$\eta$ .
— 7.9	0042	0084	0126	0168	0210	0251	0293	0333	0374	0414	0453	0492	0531	— 7.9
8	043	085	128	170	212	254	296	337	378	419	459	498	537	8
7	043	086	129	172	215	257	300	341	383	424	464	504	543	7
6	044	087	131	174	217	260	303	345	387	429	470	510	550	6
5	044	088	132	176	220	263	306	349	391	434	475	516	556	5
4	045	089	134	178	222	266	310	353	396	439	481	522	563	4
3	045	090	135	180	225	269	313	357	400	443	486	528	569	3
2	046	091	137	182	227	272	317	361	405	448	491	534	576	2
1	046	092	138	184	230	275	320	365	409	453	497	540	582	1
— 7.0	047	093	140	186	232	278	324	369	414	458	502	546	588	— 7.0
— 6.9	0047	0094	0141	0188	0235	0281	0327	0373	0418	0463	0508	0552	0595	— 6.9
8	048	095	143	190	237	284	331	377	423	468	513	558	601	8
7	048	096	144	192	240	287	334	381	427	473	518	563	608	7
6	049	097	146	194	242	290	338	385	432	478	524	569	614	6
5	049	098	147	196	245	293	341	389	436	483	529	575	620	5
4	050	099	149	198	247	296	344	393	440	488	535	581	627	4
3	050	100	150	200	250	299	348	397	445	493	540	587	633	3
2	051	101	152	202	252	302	351	400	449	498	546	593	640	2
1	051	102	153	204	254	305	355	404	454	503	551	599	646	1
— 6.0	052	103	154	206	257	308	358	408	458	508	557	605	652	— 6.0
— 5.9	0052	0104	0156	0208	0259	0311	0362	0412	0463	0513	0562	0611	0659	— 5.9
8	053	105	157	210	262	314	365	416	467	518	567	617	665	8
7	053	106	159	212	264	317	369	420	472	522	573	623	672	7
6	054	107	160	214	267	320	372	424	476	527	578	629	678	6
5	054	108	162	216	269	323	376	428	480	532	584	635	685	5
4	055	109	163	218	272	325	379	432	485	537	589	640	691	4
3	055	110	165	220	274	328	383	436	489	542	594	646	698	3
2	056	111	166	222	277	331	386	440	494	547	600	652	704	2
1	056	112	168	224	279	334	389	444	498	552	605	658	710	1
— 5.0	057	113	169	226	282	337	393	448	503	557	611	664	717	— 5.0
— 4.9	0057	0114	0171	0228	0284	0340	0396	0452	0507	0562	0616	0670	0723	— 4.9
8	058	115	172	230	287	343	400	456	512	567	622	676	730	8
7	058	116	174	232	289	346	403	460	516	572	627	682	736	7
6	059	117	175	234	292	349	407	464	520	577	633	688	742	6
5	059	118	177	236	294	352	410	468	525	582	638	694	749	5
4	060	119	178	238	296	355	414	472	529	587	644	700	755	4
3	060	120	180	239	299	358	417	476	534	592	649	706	762	3
2	061	121	181	241	301	361	421	480	538	597	654	712	768	2
1	061	122	183	243	304	364	424	484	543	602	660	718	775	1
— 4.0	062	123	184	245	306	367	428	488	547	606	665	724	781	— 4.0
— 3.9	0062	0124	0186	0247	0309	0370	0431	0492	0552	0611	0671	0729	0788	— 3.9
8	062	125	187	249	311	373	434	496	556	616	676	735	794	8
7	063	126	189	251	314	376	438	499	561	621	682	741	800	7
6	063	127	190	253	316	379	441	503	565	626	687	747	807	6
5	064	128	192	255	319	382	445	507	570	631	692	753	813	5
4	064	129	193	257	321	385	448	511	574	636	698	759	820	4
3	065	130	195	259	324	388	452	515	578	641	703	765	826	3
2	065	131	196	261	326	391	455	519	583	646	709	771	833	2
1	066	132	198	263	329	394	459	523	587	651	714	777	839	1
— 3.0	066	133	199	265	331	397	462	527	592	656	720	783	846	— 3.0



TABLE XI. *continued.*—For  $D = -18^\circ$ . $\eta$  Negative.  $X = \xi + \frac{1}{30}\xi + \frac{1}{100}\xi +$  following table.

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .
$\eta$ .														$\eta$ .
— 2.9	0067	0134	0201	0267	0334	0400	0466	0531	0596	0661	0725	0789	0852	— 2.9
8	067	135	202	269	336	403	469	535	601	666	731	795	858	8
7	068	136	204	271	339	406	473	539	605	671	736	801	865	7
6	068	137	205	273	341	409	476	543	610	676	742	807	871	6
5	069	138	207	275	344	412	480	547	614	681	747	813	878	5
4	069	139	208	277	346	415	483	551	618	686	752	819	884	4
3	070	140	210	279	348	418	486	555	623	691	758	825	891	3
2	070	141	211	281	351	421	490	559	627	696	763	830	897	2
1	071	142	212	283	353	424	493	563	632	701	769	836	903	1
— 2.0	071	143	214	285	356	426	497	567	636	706	774	842	910	— 2.0
— 1.9	0072	0144	0215	0287	0358	0429	0500	0571	0641	0710	0780	0848	0916	— 1.9
8	072	145	217	289	361	432	504	575	645	715	785	854	923	8
7	073	146	218	291	363	435	507	579	650	720	791	860	929	7
6	073	147	220	293	366	438	511	583	654	725	796	866	936	6
5	074	148	221	295	368	441	514	587	659	730	802	872	942	5
4	074	149	223	297	371	444	518	591	663	735	807	878	948	4
3	075	150	224	299	373	447	521	595	668	740	812	884	955	3
2	075	151	226	301	376	450	525	599	672	745	818	890	961	2
1	076	152	227	303	378	453	528	603	677	750	823	896	968	1
— 1.0	076	153	229	305	381	456	532	607	681	755	829	902	974	— 1.0
— 0.9	0077	0154	0230	0307	0383	0459	0535	0610	0686	0760	0834	0908	0981	— 0.9
8	077	155	232	309	386	462	539	614	690	765	840	914	987	8
7	078	156	233	311	388	465	542	618	694	770	845	920	0994	7
6	078	157	235	313	391	468	545	622	699	775	851	926	1000	6
5	079	158	236	315	393	471	549	626	703	780	856	932	007	5
4	079	159	238	317	396	474	552	630	708	785	862	938	013	4
3	080	160	239	319	398	477	556	634	712	790	867	944	020	3
2	080	161	241	321	401	480	559	638	717	795	872	950	026	2
1	081	162	242	323	403	483	563	642	721	800	878	956	032	1
— 0.0	0081	0163	0244	0325	0406	0486	0566	0646	0726	0805	0883	0962	1039	— 0.0

TABLE XII.—For  $D = -18^\circ$ . $\eta$  Positive. $X = \xi + \frac{1}{20}\xi + \text{following table.}$ 

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .
$\eta$ .														$\eta$ .
+ 0.0	0015	0029	0044	0058	0072	0086	0100	0113	0126	0138	0150	0162	0172	+ 0.0
1	015	030	045	060	075	089	103	117	130	143	156	168	179	1
2	016	031	047	062	077	092	107	121	135	148	161	174	185	2
3	016	032	048	064	080	095	110	125	139	153	166	180	192	3
4	017	033	050	066	082	098	114	129	144	158	172	185	198	4
5	017	034	051	068	085	101	117	133	148	163	177	191	205	5
6	018	035	053	070	087	104	121	137	153	168	183	197	211	6
7	018	036	054	072	090	107	124	141	157	173	188	203	217	7
8	019	037	056	074	092	110	128	145	162	178	194	209	224	8
+ 0.9	019	038	057	076	095	113	131	149	166	183	199	215	230	+ 0.9
+ 1.0	0020	0039	0059	0078	0097	0116	0134	0153	0170	0188	0205	0221	0237	+ 1.0
1	020	040	060	080	100	119	138	157	175	193	210	227	243	1
2	021	041	062	082	102	122	141	161	179	198	216	233	250	2
3	021	042	063	084	105	125	145	165	184	203	221	239	256	3
4	022	043	065	086	107	128	148	169	188	208	227	245	263	4
5	022	044	066	088	110	131	152	173	193	213	232	251	269	5
6	023	045	068	090	112	134	155	176	197	218	238	257	276	6
7	023	046	069	092	114	137	159	180	202	223	243	263	282	7
8	024	047	071	094	117	140	162	184	206	228	249	269	289	8
+ 1.9	024	048	072	096	119	143	166	188	211	233	254	275	295	+ 1.9
+ 2.0	0025	0049	0074	0098	0122	0146	0169	0192	0215	0238	0260	0281	0302	+ 2.0
1	025	050	075	100	124	149	173	196	220	243	265	287	308	1
2	026	051	077	102	127	152	176	200	224	248	271	293	315	2
3	026	052	078	104	129	155	180	204	229	253	276	299	321	3
4	027	053	080	106	132	158	183	208	233	258	282	305	328	4
5	027	054	081	108	134	161	187	212	238	262	287	311	334	5
6	028	055	082	110	137	164	190	216	242	268	292	317	340	6
7	028	056	084	112	139	167	194	220	247	273	298	323	347	7
8	029	057	085	114	142	170	197	224	251	278	303	329	353	8
+ 2.9	029	058	087	116	144	173	201	228	256	282	309	335	360	+ 2.9
+ 3.0	0030	0059	0088	0118	0147	0176	0204	0232	0260	0287	0314	0341	0366	+ 3.0
1	030	060	090	120	149	179	208	236	265	292	320	347	373	1
2	031	061	091	122	152	182	211	240	269	297	325	353	379	2
3	031	062	093	124	154	185	215	244	274	302	331	359	386	3
4	032	063	094	126	157	188	218	248	278	307	336	365	392	4
5	032	064	096	128	159	191	222	252	282	312	342	370	399	5
6	033	065	097	130	162	194	225	256	287	317	347	376	405	6
7	033	066	099	132	164	197	229	260	291	322	353	382	412	7
8	034	067	100	134	167	200	232	264	296	327	358	388	418	8
+ 3.9	034	068	102	136	169	203	236	268	300	332	364	394	425	+ 3.9
+ 4.0	0035	0069	0103	0138	0172	0205	0239	0272	0305	0337	0369	0400	0431	+ 4.0
1	035	070	105	140	174	208	243	276	309	342	375	406	438	1
2	036	071	106	142	177	211	246	280	314	347	380	412	444	2
3	036	072	108	144	179	214	250	284	318	352	386	418	451	3
4	037	073	109	146	182	217	253	288	323	357	391	424	457	4
5	037	074	111	148	184	220	257	292	327	362	397	430	464	5
6	038	075	112	150	187	223	260	296	332	367	402	436	470	6
7	038	076	114	152	189	226	264	300	336	372	408	442	477	7
8	039	077	115	154	192	229	267	304	341	377	413	448	483	8
+ 4.9	039	078	117	156	194	232	271	308	345	382	419	454	490	+ 4.9

TABLE XII. *continued.*—For  $D = -18^\circ$ . $\eta$  Positive. $X = \xi + \frac{1}{20}\xi + \text{following table.}$ 

$\xi$ $\eta$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ $\eta$
+ 5.0	0040	0079	0118	0158	0197	0235	0274	0312	0350	0387	0424	0460	0490	+ 5.0
1	040	080	120	160	199	238	278	316	354	392	430	466	503	1
2	041	081	121	162	202	241	281	320	359	397	435	472	509	2
3	041	082	123	164	204	244	284	324	363	402	441	478	516	3
4	042	083	124	166	207	247	288	328	368	407	446	484	522	4
5	042	084	126	168	209	250	291	332	372	412	452	490	528	5
6	043	085	127	170	212	253	295	336	377	417	457	496	535	6
7	043	086	129	172	214	256	298	340	381	422	462	502	541	7
8	044	087	130	174	217	259	302	344	386	427	468	508	548	8
+ 5.9	044	088	132	176	219	262	305	348	390	432	473	514	554	+ 5.9
+ 6.0	0045	0089	0133	0178	0222	0265	0309	0352	0395	0437	0479	0520	0561	+ 6.0
1	045	090	135	180	224	268	312	356	399	442	484	526	567	1
2	046	091	136	182	227	271	316	360	404	447	490	532	574	2
3	046	092	138	184	229	274	319	364	408	452	495	538	580	3
4	047	093	139	186	232	277	323	368	413	457	501	544	587	4
5	047	094	141	188	234	280	326	372	417	462	506	550	593	5
6	048	095	142	190	237	283	330	376	422	467	512	556	600	6
7	048	096	144	192	239	286	333	380	426	472	517	562	606	7
8	049	097	145	194	242	289	337	384	431	477	523	568	613	8
+ 6.9	049	098	147	196	244	292	340	388	435	482	528	574	619	+ 6.9
+ 7.0	0050	0099	0148	0198	0247	0295	0344	0392	0440	0487	0534	0580	0626	+ 7.0
1	050	100	150	200	249	298	347	396	444	492	539	586	632	1
2	051	101	151	202	252	301	351	400	449	497	545	592	639	2
3	051	102	153	204	254	304	354	404	453	502	550	598	645	3
4	052	103	154	206	257	307	358	408	458	507	556	604	652	4
5	052	104	156	208	259	310	361	412	462	512	561	610	658	5
6	053	105	157	210	262	313	365	416	467	517	567	616	665	6
7	053	106	159	212	264	316	368	420	471	522	572	622	671	7
8	054	107	160	214	267	319	372	424	476	527	578	628	678	8
+ 7.9	054	108	162	216	269	322	375	428	480	532	583	634	684	+ 7.9
+ 8.0	0055	0109	0163	0218	0272	0325	0379	0432	0485	0537	0589	0640	0691	+ 8.0
1	055	110	165	220	274	328	382	436	489	542	594	646	698	1
2	056	111	166	222	277	331	386	440	494	547	600	652	704	2
3	056	112	168	224	279	334	389	444	498	552	605	658	711	3
4	057	113	169	226	282	337	393	448	503	557	611	664	717	4
5	057	114	171	228	284	340	396	452	507	562	616	670	724	5
6	058	115	172	230	287	343	400	456	512	567	622	676	730	6
7	058	116	174	232	289	346	403	460	516	572	627	682	737	7
8	059	117	175	234	292	349	407	464	521	577	633	688	743	8
+ 8.9	059	118	177	236	294	352	410	468	525	582	638	694	750	+ 8.9
+ 9.0	0060	0119	0178	0238	0297	0356	0414	0472	0530	0587	0644	0700	0756	+ 9.0
1	060	120	180	240	299	359	418	476	534	592	650	706	763	1
2	061	121	181	242	302	362	421	480	539	597	655	712	769	2
3	061	122	183	244	304	365	425	484	543	602	661	718	776	3
4	062	123	184	246	307	368	428	488	548	607	666	724	782	4
5	062	124	186	248	309	371	432	492	552	612	672	730	789	5
6	063	125	187	250	312	374	435	496	557	617	677	736	795	6
7	063	126	189	252	314	377	439	500	561	622	683	743	802	7
8	064	127	190	254	317	380	442	504	566	627	688	749	808	8
+ 9.9	064	128	192	256	319	383	446	508	570	632	694	755	815	+ 9.9

TABLE XII. *continued.*—For  $D = -18^\circ$ . $\eta$  Positive. $X = \xi + \frac{1}{20}\xi + \text{following table.}$ 

$\eta \backslash \xi$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi \backslash \eta$
+10.0	0065	0129	0193	0258	0322	0386	0449	0512	0575	0637	0699	0761	0821	+10.0
1	065	130	195	260	324	389	453	516	580	642	705	767	828	1
2	066	131	196	262	327	392	456	520	584	647	710	773	834	2
3	066	132	198	264	329	395	460	524	589	652	716	779	841	3
4	067	133	199	266	332	398	463	528	593	658	721	785	847	4
5	067	134	201	268	334	401	467	532	598	663	727	791	854	5
6	068	135	202	270	337	404	470	536	602	668	732	797	860	6
7	068	136	204	272	339	407	474	540	607	673	738	803	867	7
8	069	137	205	274	342	410	477	544	611	678	743	809	873	8
+10.9	069	138	207	276	344	413	481	548	616	683	749	815	880	+10.9
+11.0	0070	0139	0208	0278	0347	0416	0484	0552	0620	0688	0754	0821	0886	+11.0
1	070	140	210	280	349	419	488	556	625	693	760	827	893	1
2	071	141	212	282	352	422	491	560	629	698	766	833	900	2
3	071	142	213	284	354	425	495	564	634	703	771	839	906	3
4	072	143	215	286	357	428	498	568	638	708	777	845	913	4
5	072	144	216	288	359	431	502	572	643	713	782	851	919	5
6	073	145	218	290	362	434	505	576	647	718	788	857	926	6
7	073	146	219	292	364	437	509	580	652	723	793	863	932	7
8	074	147	221	294	367	440	512	585	656	728	799	869	939	8
+11.9	074	148	222	296	369	443	516	589	661	733	804	875	945	+11.9
+12.0	0075	0149	0224	0298	0372	0446	0519	0593	0665	0738	0810	0881	0952	+12.0
1	075	150	225	300	374	449	523	597	670	743	815	887	958	1
2	076	151	227	302	377	452	526	601	674	748	821	893	965	2
3	076	152	228	304	380	455	530	605	679	753	826	899	971	3
4	077	153	230	306	382	458	533	609	683	758	832	905	978	4
5	077	154	231	308	385	461	537	613	688	763	837	911	984	5
6	078	155	233	310	387	464	540	617	693	768	843	917	991	6
7	078	156	234	312	390	467	544	621	697	773	848	923	998	7
8	079	157	236	314	392	470	548	625	702	778	854	929	1004	8
+12.9	079	158	237	316	395	473	551	629	706	783	859	936	1011	+12.9
+13.0	0080	0159	0239	0318	0397	0476	0555	0633	0711	0788	0865	0942	1017	+13.0



# HYDERABAD ASTROGRAPHIC CATALOGUE

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## T A B L E S

FOR THE CONVERSION OF

MEASURED DIAMETERS OF THE STAR-IMAGES

IN

ZONE  $-18^{\circ}$

INTO

STELLAR PHOTOGRAPHIC MAGNITUDES BY  
MEANS OF THE FORMULÆ

$$m = a - 1.05 \sqrt{d}$$

and

$$m = a - 1.10 \sqrt{d}$$

Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m=a-1.05\sqrt{d}$ . $a=15.1$  to  $16.4$ .

$a$ $d$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$a$ $d$
8	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	8
9	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	9
10	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	10
11	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	11
12	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12
13	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	13
14	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	14
15	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	15
16	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	16
17	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	17
18	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	18
19	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	19
20	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	20
21	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	21
22	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	22
23	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	23
24	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	24
25	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	25
26	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	26
27	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	27
28	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	28
29	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	29
30	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	30
31	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	31
32	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	32
33	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	33
34	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	34
35	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	35
36	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	36
37	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	37
38	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	38
39	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	39
40	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	40
41	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	41
42	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	42
43	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	43
44	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	44
45	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	45
46	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	46
47	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	47
48	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	48
49	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	49
50	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	50
55	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	55
60	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	60
65	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	65
70	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	70
75	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	75
80	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	80
85	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	85
90	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	90
95	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	95
100	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	100
110	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	110
120	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	120
130	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	130
$d$ $a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$d$ $a$



Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m = a - 1.05 \sqrt{d}$ . $a = 16.5$  to  $17.8$ .

$d \backslash a$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$a \backslash d$
8	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	8
9	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	9
10	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	10
11	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	11
12	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	12
13	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13
14	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14
15	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	15
16	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	16
17	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	17
18	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	18
19	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	19
20	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	20
21	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	21
22	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	22
23	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	23
24	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	24
25	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	25
26	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	26
27	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	27
28	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	28
29	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	29
30	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	30
31	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	31
32	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	32
33	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	33
34	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	34
35	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	35
36	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	36
37	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	37
38	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	38
39	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	39
40	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	40
41	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	41
42	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	42
43	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	43
44	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	44
45	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	45
46	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	46
47	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	47
48	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	48
49	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	49
50	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	50
55	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	55
60	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	60
65	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	65
70	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	70
75	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	75
80	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	80
85	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	85
90	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	90
95	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	95
100	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	100
110	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	110
120	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	120
130	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	130
$d$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$d$
$a$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$a$



Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m=a-1.10\sqrt{d}$ . $a=15.1$  to  $16.4$ .

$d$	$a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$d$
8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	8
9	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	9
10	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	10
11	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	11
12	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12
13	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	13
14	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	14
15	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	15
16	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	16
17	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	17
18	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	18
19	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	19
20	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	20
21	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	21
22	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	22
23	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	23
24	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	24
25	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	25
26	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	26
27	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	27
28	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	28
29	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	29
30	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	30
31	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	31
32	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	32
33	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	33
34	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	34
35	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	35
36	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	36
37	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	37
38	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	38
39	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	39
40	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	40
41	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	41
42	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	42
43	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	43
44	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	44
45	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	45
46	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	46
47	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	47
48	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	48
49	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	49
50	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	50
55	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	55
60	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	60
65	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	65
70	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	70
75	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	75
80	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	80
85	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	85
90	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	90
95	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	95
100	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	100
110	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	110
120	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	120
130	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	130
$d$	$a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$d$

Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m = a - 1.10 \sqrt{d}$ . $a = 16.5$  to  $17.8$ .

$d$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$d$
8	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	8
9	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	9
10	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	10
11	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	11
12	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	12
13	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13
14	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	14
15	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	15
16	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	16
17	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	17
18	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	18
19	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	19
20	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	20
21	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	21
22	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	22
23	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	23
24	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	24
25	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	25
26	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	26
27	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	27
28	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	28
29	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	29
30	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	30
31	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	31
32	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	32
33	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	33
34	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	34
35	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	35
36	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	36
37	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	37
38	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	38
39	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	39
40	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	40
41	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	41
42	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	42
43	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	43
44	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	44
45	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	45
46	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	46
47	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	47
48	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	48
49	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	49
50	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	50
55	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	55
60	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	60
65	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	65
70	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	70
75	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	75
80	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	80
85	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	85
90	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	90
95	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	95
100	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	100
110	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	110
120	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	120
130	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	130
$d$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$d$



# HYDERABAD ASTROGRAPHIC CATALOGUE, 1900

ZONE  $-18^{\circ}$

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## MEASURES OF RECTANGULAR CO-ORDINATES AND DIAMETERS OF STAR-IMAGES

ON PHOTOGRAPHS TAKEN AT THE NIZAMIAH OBSERVATORY,  
HYDERABAD

## EXPLANATION OF THE COLUMNS.

The heading of each plate gives the approximate R.A. of the centre, the number of the plate in the Hyderabad series, the date of exposure, the provisional constants by means of which the measures may be converted into standard co-ordinates (see Introduction, Sections VII., VIII.), and the formula connecting magnitude and diameter (see Introduction, Section V.).

The first column gives a reference number which is purely arbitrary; in order to designate a star it is only necessary to state the zone and the number, thus,  $-18^{\circ}$ , 4040; neither the plate number nor the R.A. of the plate need be stated. Since a gap is always left between the last number of any plate and the first number of the next following plate, there are many numbers which are not allotted to stars, thus there is no star  $-18^{\circ}$ , 4070.

An asterisk attached to the number in this column indicates that the star is amongst those stars selected from the *Astronomische Gesellschaft* Catalogues, the standard co-ordinates of which are given on pages 189–218 of this volume.

The second column gives the measured diameter, estimated in units of  $0''.15$ , these diameters may be converted into magnitudes by means of the formula printed at the head of each plate.

The third and fourth columns give the measured co-ordinates of the stars, denoted by  $x$ ,  $y$ , the directions of the co-ordinate axes being approximately those of increasing R.A. and S. Declination, and the origin being the corner of the réseau: the plate centre is approximately at the point (13, 13).

The stars are arranged in the order of the value of the  $x$  co-ordinate for each zone of one unit of  $y$  (approximately  $5''$ ). Each printed measure is the mean of at least two independent bisections of the star-image made in positions of the plate differing by  $180^{\circ}$ .

**R.A. 0<sup>h</sup> 0<sup>m</sup>**

Plate 822; 1916 Nov. 20.

*Provisional Constants.*

A	B	C
-02575	+00486	+2115

D	E	F
-00496	-02551	-3478

Mag. = 17.0 - 1.05√d

No.	d	x	y
1	18	1.650	0.326
2	17	3.418	0.936
3	49	16.450	0.326
4	37	24.894	0.069
5	18	25.714	0.067
6	70	3.422	1.682
7	96	10.671	1.572
8	15	15.521	1.917
9	24	18.292	1.390
10	17	6.402	2.717
11	37	18.544	2.044
12	39	20.270	2.381
13	26	3.730	3.068
14	29	8.200	3.370
15	21	16.260	3.640
16	42	19.600	3.707
17	26	19.794	3.649
18	34	20.804	3.644
19	37	24.684	3.651
20	36	2.654	4.007
21	28	2.754	4.443
22	37	4.949	4.766
23	27	13.686	4.155
24	52	16.642	4.003
25	23	0.514	5.795
26	56	1.515	5.140
27	20	8.194	5.714
28	66	12.278	5.378
29	16	14.944	5.712
30	34	17.620	5.779
31	26	21.381	5.544
32	37	2.518	6.492
33	29	7.200	6.944
34	18	8.740	6.800
35	36	11.866	6.556
36	27	25.145	6.682
37	32	10.024	7.078
38	12	12.754	7.256
39	17	13.710	7.664
40	30	15.962	7.020
41	30	21.823	7.023
42	27	23.072	7.706
43	36	10.300	8.491
44	36	20.498	8.132
45	42	21.078	8.470
46	33	2.891	9.323
47	19	3.557	9.912
48	32	4.101	9.244
49	16	4.404	9.358
50	14	13.640	9.687
51	32	14.396	9.114
52	34	14.936	9.016
53	34	18.920	9.391
54	20	25.431	9.326
55	34	25.720	9.290

56	16	6.887	10.386
57	34	8.278	10.564
58	19	9.581	10.030
59	22	12.298	10.785
60	18	13.866	10.844
61	37	14.834	10.628
62	16	20.800	10.356
63	26	25.094	10.317
64	42	25.238	10.516
65	36	6.995	11.003
66	26	7.452	11.208
67	178	9.080	11.034
68	118	19.050	11.509
69	18	19.783	11.332
70	30	8.157	12.220
71	60	10.511	12.069
72	36	11.372	12.545
73	19	12.700	12.194
74	31	15.602	12.236
75	30	22.482	12.344
76	26	22.842	12.618
77	56	8.731	13.428
78	21	10.918	13.810
79	24	12.746	13.177
80	33	13.842	13.655
81	74	22.544	13.815
82	37	1.128	14.756
83	14	1.278	14.898
84	14	9.756	14.770
85	37	17.225	14.424
86	17	8.200	14.994
87	41	9.576	15.736
88	22	18.036	15.819
89	21	18.036	15.450
90	26	5.584	16.456
91	26	13.923	16.103
92	17	20.213	16.151
93	22	18.236	17.704
94	22	18.367	17.792
95	38	19.291	17.224
96	24	2.604	18.038
97	22	12.498	18.635
98	20	13.079	18.543
99	30	15.108	18.045
100	20	2.732	19.725
101	32	5.691	19.096
102	22	11.773	19.859
103	32	12.864	19.908
104	36	16.208	19.783
105	80	16.586	19.224
106	36	23.220	19.250
107	20	0.284	20.454
108	36	8.443	20.925
109	56	12.520	20.857
110	40	14.712	20.796
111	20	15.505	20.590
112	36	21.669	20.736
113	26	4.982	21.326
114	22	11.092	21.683
115	24	1.376	22.706
116	20	13.054	22.332
117	35	14.702	22.454
118	25	16.930	22.176
119	32	20.016	22.934
120	19	9.270	23.206
121	26	14.776	23.221
122	21	15.150	23.116
123	38	17.143	23.571
124	23	18.744	23.956
125	16	23.474	23.496
126	16	1.795	24.872
127	30	2.016	24.054

128	20	7.934	24.760
129	24	11.544	24.926
130	37	12.943	24.272
131	32	15.335	24.994
132	37	18.266	24.080
133	24	20.644	24.026
134	57	24.728	24.565
135	14	25.592	24.788
136	37	0.471	25.412
137	27	2.656	25.234
138	36	3.060	25.051
139	16	6.902	25.673
140	20	8.338	25.093
141	25	11.684	25.737
142	21	12.660	25.859
143	44	13.969	25.704
144	19	20.100	25.842

**R.A. 0<sup>h</sup> 8<sup>m</sup>**

Plate 848; 1916 Nov. 27.

*Provisional Constants.*

A	B	C
-02553	+00257	+0738

D	E	F
-00270	-02569	-3877

Mag. = 16.5 - 1.05√d

No.	d	x	y
151	28	2.377	0.133
152	15	3.206	0.125
153	23	6.660	0.382
154	13	8.777	0.208
155	10	15.031	0.730
156	17	16.881	0.590
157	13	18.738	0.382
158	17	20.356	0.048
159	33	22.298	0.368
160	17	10.878	1.744
161	11	13.948	1.156
162	12	21.236	1.133
163	9	25.658	1.606
164	17	18.419	2.770
165	27	22.362	2.575
166	10	22.272	2.786
167	35	23.474	2.317
168	30	2.198	3.719
169	26	4.627	3.530
170	8	5.785	3.923
171	12	7.564	3.275
172	10	9.446	3.316
173	15	9.660	3.474
174	33	14.442	3.600
175	45	16.718	3.221
176	9	20.203	3.208
177	31	24.428	3.073
178	14	1.364	4.054
179	19	3.674	4.422
180	42	5.030	4.548
181	15	6.223	4.322

182	8	7.025	4.684
183	22	9.138	4.849
184	47	9.763	4.900
185	14	13.579	4.530
186	31	17.734	4.920
187	75	18.860	4.201
188	30	20.118	4.852
189	13	22.866	4.141
190	11	4.307	5.088
191	18	6.358	5.292
192	27	7.900	5.526
193	28	9.124	5.840
194	22	10.765	5.753
195	15	15.350	5.368
196	10	20.036	5.797
197	24	2.682	6.744
198	13	10.844	6.386
199	41	17.248	6.648
200	26	0.618	7.782
201	11	13.392	7.741
202	8	15.016	7.784
203	16	17.856	7.462
204	16	19.594	7.136
205	14	21.562	7.288
206	9	3.927	8.705
207	29	4.808	8.044
208	21	5.293	8.803
209	19	5.326	8.934
210	43	17.360	8.862
211	14	17.812	8.274
212	22	21.836	8.713
213	15	2.992	9.388
214	27	3.280	9.348
215	14	4.300	9.800
216	27	9.938	9.982
217	29	12.624	9.477
218	52	13.081	9.031
219	64	13.153	9.232
220	18	14.678	9.156
221	36	16.605	9.920
222	10	22.946	9.826
223	10	0.221	10.484
224	25	2.662	10.381
225	30	2.807	10.578
226	39	4.047	10.020
227	18	4.172	10.253
228	13	9.023	10.020
229	27	10.719	10.434
230	15	10.795	10.128
231	12	11.317	10.071
232	25	13.234	10.507
233	43	18.378	10.086
234	14	6.215	11.302
235	13	11.192	11.207
236	8	14.758	11.770
237	8	18.867	11.494
238	13	21.898	11.826
239	26	23.221	11.294
240	13	23.372	11.160
241	27	0.068	12.428
242	18	0.430	12.699
243	9	6.650	12.901
244	8	8.360	12.422
245	13	9.588	12.268
246	28	12.626	12.450
247	26	13.004	12.473
248	20	17.500	12.300
249	10	20.298	12.993
250	28	20.634	12.620
251	24	22.812	12.694
252	83	0.136	13.898
253	11	6.886	13.751



326	17	15°739	23°948	417	14	19°715	1°689	489	22	19°059	11°600	561	38	20°005	20°572	656	8	18°030	0°168
327*	38	16°630	23°808	418	14	24°662	1°475	490	21	19°984	11°786	562	9	6°144	21°287	657	12	2°210	1°560
328	34	23°038	23°472	419	39	1°245	2°604	491	24	23°098	11°539	563	19	6°268	21°664	658	14	16°410	1°870
329	14	23°770	23°166	420	9	3°084	2°987	492	30	0°719	12°900	564	31	7°518	21°340	659	14	18°170	1°730
330	36	24°893	23°460	421	10	3°932	2°502	493	18	9°639	12°977	565	12	10°749	21°074	660	13	18°440	1°170
331	13	25°724	23°038	422	29	12°130	2°346	494*	41	10°072	12°838	566	20	10°912	21°154	661	15	25°002	1°092
332	11	1°455	24°956	423	29	13°358	2°036	495	27	10°578	12°256	567	26	14°949	21°543	662	12	3°160	2°083
333	10	1°582	24°912	424	10	14°090	2°563	496	8	12°780	12°613	568	10	22°730	21°577	663	31	12°215	2°092
334*	44	2°418	24°626	425*	50	17°658	2°163	497	9	14°287	12°434	569	48	0°282	22°035	664	8	17°754	2°610
335	13	3°288	24°844	426*	48	20°662	2°087	498	27	21°692	12°336	570	37	2°210	22°642	665	12	21°362	2°531
336	22	7°279	24°892	427	13	25°615	2°000	499	61	24°982	12°200	571	32	2°601	22°612	666	0	22°182	2°281
337	32	7°330	24°873	428	12	0°050	3°088	500	12	25°598	12°572	572	9	5°484	22°599	667	0	0°128	3°318
338	12	8°773	24°020	429	32	2°208	3°349	501*	49	4°046	13°954	573	26	8°174	22°084	668	18	2°811	3°279
339	11	10°083	24°236	430	12	5°050	3°882	502	10	4°604	13°876	574	30	13°156	22°730	669	17	3°075	3°084
340	16	13°940	24°288	431	35	6°382	3°405	503	16	5°176	13°240	575	29	13°457	22°783	670	14	13°710	3°302
341	14	14°858	24°078	432	9	10°200	3°361	504	16	7°262	13°806	576	25	14°642	22°936	671	13	15°030	3°135
342	41	15°906	24°999	433	22	10°908	3°318	505	10	8°486	13°330	577	14	18°255	22°939	672	40	25°851	3°160
343	21	16°323	24°849	434	16	11°096	3°032	506	9	12°715	13°164	578	41	20°699	22°352	673	14	3°823	1°711
344	34	16°376	24°144	435*	43	18°085	3°417	507	29	13°834	13°044	579	27	25°348	22°920	674	11	5°066	1°750
345	27	17°276	24°081	436	26	18°928	3°621	508	14	16°254	13°589	580	12	0°050	23°730	675	10	10°131	1°921
346	15	18°829	24°230	437	17	19°225	3°000	509	29	16°794	13°046	581	36	1°092	23°744	676	8	11°520	1°418
347	10	25°346	24°025	438	26	25°264	3°195	510	10	20°112	13°556	582	42	2°946	23°728	677	11	11°934	1°934
348	9	25°462	24°648	439	12	0°661	4°438	511	10	20°644	13°684	583	31	3°776	23°296	678	20	17°738	1°672
349	49	6°930	25°490	440	9	1°160	4°842	512	9	20°942	13°276	584	21	3°776	23°296	679	11	17°959	1°650
350	15	7°044	25°254	441	10	5°056	4°891	513	39	22°516	13°066	585	31	11°314	23°384	680*	68	10°060	1°870
351	71	8°642	25°820	442	14	9°839	4°919	514	10	24°875	13°240	586	30	12°119	23°964	681	35	22°427	1°448
352	14	9°512	25°838	443	9	15°198	4°589	515	40	25°790	13°854	587	14	12°862	23°079	682	35	6°390	5°144
353	42	10°980	25°040	444*	55	21°714	4°524	516	11	0°344	14°276	588	8	13°129	23°965	683	10	6°517	5°266
354	8	12°355	25°143	445	8	2°662	5°321	517	12	12°148	14°128	589	37	15°083	23°304	684	14	11°548	5°760
355	17	19°888	25°757	446	12	14°125	5°414	518	10	17°070	14°200	590	29	21°173	23°957	685	37	13°130	5°260
356	12	20°276	25°187	447	11	15°762	5°668	519	33	20°126	14°856	591*	47	23°758	23°300	686	41	13°100	5°484
357	30	21°366	25°955	448	8	16°296	5°519	520	29	21°602	14°228	592	10	24°144	23°320	687	28	15°285	5°160
				449*	36	18°682	5°276	521	22	23°905	14°519	593	19	24°196	23°336	688	12	23°971	5°865
				450*	39	21°628	5°220	522	16	0°085	15°062	594	16	25°784	23°897	689	13	24°772	5°843
				451	10	0°348	6°654	523*	43	2°355	15°126	595	23	3°412	24°284	690	14	33°788	6°145
				452	13	5°700	6°122	524	25	2°596	15°300	596	14	3°534	24°906	691	45	7°801	6°015
				453	20	6°328	6°534	525*	66	8°528	15°236	597	11	5°443	24°200	692	16	9°295	6°700
				454	10	8°212	6°850	526	12	8°755	15°702	598	13	6°512	24°898	693*	53	9°110	6°701
				455	23	17°338	6°944	527	15	8°888	15°346	599	34	8°119	24°115	694	31	21°186	6°500
				456	8	19°659	6°556	528*	76	10°112	15°464	600	31	15°900	24°333	695	25	25°017	6°168
				457*	40	6°270	7°670	529	12	13°825	15°303	601	34	18°219	24°628	696	12	25°035	6°174
				458	23	7°424	7°404	530	15	16°034	15°600	602*	60	23°450	24°423	697	25	25°053	6°127
				459	13	10°284	7°986	531	19	16°060	15°600	603	16	10°985	25°223	698	33	6°932	7°079
				460	10	18°421	7°361	532	9	21°004	15°229	604	10	15°606	25°028	699	12	0°520	7°165
				461	42	21°474	7°114	533*	42	1°948	16°292	605	11	16°709	25°055	700	19	17°779	7°530
				462	12	9°741	8°692	534	12	4°796	16°956					701	23	23°014	7°248
				463	8	10°234	8°388	535	15	4°838	16°748					702	0	1°221	8°130
				464	16	11°446	8°128	536	19	6°498	16°454					703	15	2°876	8°746
				465	17	13°970	8°362	537	28	11°191	16°722					704	8	4°385	8°430
				466*	44	16°984	8°583	538	10	15°425	16°854					705	9	7°057	8°016
				467	14	18°377	8°795	539*	43	16°188	16°756					706	14	11°962	8°735
				468	29	18°657	8°530	540	9	20°643	16°086					707	11	19°252	8°301
				469	25	19°154	8°590	541*	75	21°088	16°712					708	12	24°184	8°286
				470	10	23°650	8°348	542	39	25°792	16°744					709	17	3°198	9°618
				471	22	25°303	8°662	543	54	0°423	17°854					710	9	3°050	9°416
				472	10	6°834	9°712	544	9	10°560	17°356					711*	40	11°630	9°873
				473	9	9°212	9°072	545	9	13°214	17°357					712*	51	12°850	9°812
				474	10	12°052	9°167	546	12	16°872	17°680					713*	50	14°808	9°707
				475	10	13°854	9°228	547	12	17°000	17°174					714	12	16°150	9°686
				476	23	22°118	9°366	548	17	18°563	17°761					715	10	17°865	9°360
				477	22	25°615	9°536	549	12	19°949	17°260					716	20	18°770	9°517
				478	22	5°967	10°252	550	11	21°804	17°636					717	11	6°538	10°332
				479	17	6°320	10°002	551	19	24°926	17°317					718	10	11°008	10°516
				480	8	15°436	10°230	552	10	2°546	18°976					719	33	20°703	10°025
				481	34	18°894	10°058	553	14	6°765	18°744					720	30	25°458	10°744
				482	29	1°110	11°584	554	11	23°680	18°433					721	27	25°630	10°447
				483	15	1°260	11°448	555	27	24°976	18°602					722	18	0°685	11°630
				484	8	9°726	11°959	556	15	18°308	19°295					723	8	5°142	11°612
				485	8	9°842	11°444	557	8	19°540	19°905					724	30	5°186	11°440
				486	11	12°504	11°816	558	12	20°710	19°406					725	25	8°541	11°986
				487	12	15°576	11°804	559	10	23°646	19°172					726*	46	9°169	11°162
				488	10	18°060	11°536	560	28	15°304	20°646					727	8	20°056	11°651

R.A. 0 <sup>h</sup> 16 <sup>m</sup>									
Plate 849; 191									

728	38	22-954	11-085	800	8	7-486	10-480	854	15	14-656	0-841	926	16	3-829	8-575	998	14	25-468	16-400
729	10	24-810	11-297	801	10	15-720	10-487	855	28	16-292	0-436	927	20	5-030	8-146	999	13	25-653	16-116
730*	80	2-565	12-290	802	20	17-005	10-514	856	24	7-266	1-162	928*	38	6-035	8-556	1000	13	5-606	17-530
731	10	3-190	12-651	803	12	18-455	10-429	857	18	13-941	1-636	929	8	9-284	8-394	1001	19	8-664	17-357
732	31	4-976	12-240	804	9	22-920	10-848	858	14	17-336	1-656	930	21	17-174	8-505	1002	9	17-053	17-546
733	12	13-426	12-718	805*	58	24-470	10-211	859	18	22-395	1-040	931	26	18-330	8-208	1003	10	18-518	17-460
734	32	17-851	12-385	806	23	24-732	10-204	860	15	22-406	1-073	932	10	23-818	8-524	1004	17	20-500	17-084
735	37	18-150	12-210	807	10	3-810	20-121	861*	9	22-430	1-368	933	12	25-100	8-386	1005*	40	22-965	17-410
736	10	18-284	12-551	808	12	5-718	20-366	862	9	23-744	1-328	934	12	3-934	9-320	1006	12	1-053	18-344
737	10	18-322	12-062	809	12	11-293	20-716	863	12	24-136	1-426	935	15	9-856	9-624	1007	9	2-193	18-483
738	11	22-258	12-856	810	22	11-668	20-593	864*	40	4-134	2-965	936	20	10-655	9-263	1008	10	3-384	18-190
739	44	0-110	13-103	811	16	15-720	20-424	865*	55	9-488	2-069	937	14	18-516	9-648	1009	8	8-170	18-275
740*	4	3-385	13-935	812	16	16-178	20-066	866*	34	10-186	2-933	938	11	19-259	9-206	1010	18	12-465	18-784
741	42	4-136	13-292	813	10	16-316	20-126	867	11	13-084	2-682	939	12	20-744	9-814	1011	10	15-014	18-551
742	9	6-125	13-480	814	29	17-271	20-112	868	32	15-289	2-602	940	19	21-177	9-916	1012	40	2-374	19-104
743	13	6-666	13-008	815	8	18-219	20-322	869	12	15-352	2-528	941	22	25-828	9-430	1013	20	2-643	19-184
744	10	8-560	13-817	816*	68	22-632	20-281	870	21	17-784	2-968	942	21	3-210	10-624	1014	11	5-590	19-700
745	13	9-316	13-300	817*	56	23-885	20-351	871	12	22-986	2-243	943	20	3-378	10-324	1015	8	6-356	19-970
746	10	9-615	13-871	818	49	25-688	20-365	872	33	3-475	3-341	944	10	5-774	10-034	1016	9	7-404	19-742
747	8	11-890	13-470	819	11	4-485	21-676	873	14	3-900	3-971	945	8	9-275	10-755	1017	17	13-824	19-571
748	31	13-614	13-234	820	10	8-140	21-034	874*	42	4-694	3-933	946	10	11-524	10-494	1018	8	14-716	19-502
749	12	13-823	13-984	821	19	11-140	21-035	875*	47	9-541	3-244	947	11	19-085	10-202	1019	60	0-554	20-210
750	9	16-900	13-580	822*	70	21-215	21-585	876*	59	15-154	3-225	948*	37	23-712	10-522	1020*	43	1-811	20-256
751	11	17-002	13-821	823	8	12-277	22-448	877*	34	22-608	3-155	949	12	23-878	10-766	1021*	38	3-614	20-236
752	11	20-438	13-703	824	22	12-902	22-300	878	12	23-538	3-019	950	30	0-714	11-006	1022	9	4-123	20-606
753	19	23-400	13-890	825	12	14-821	22-628	879	14	25-486	3-953	951	12	2-574	11-186	1023	19	9-691	20-931
754	12	1-510	14-610	826	17	21-246	22-221	880	28	0-064	4-384	952	14	5-803	11-008	1024	10	9-892	20-503
755	10	6-130	14-883	827	11	22-030	22-580	881	11	4-356	4-288	953	10	7-940	11-532	1025	11	18-354	20-870
756	33	12-244	14-056	828*	58	1-398	23-450	882	16	8-154	4-366	954	11	8-292	11-564	1026	12	18-850	20-496
757	12	15-918	14-222	829	11	1-838	23-424	883	12	9-372	4-439	955	13	11-143	11-856	1027	10	22-448	20-344
758	16	9-245	15-120	830	22	2-990	23-006	884	12	10-024	4-194	956	8	16-774	11-594	1028	14	22-784	20-224
759	12	10-316	15-882	831	12	3-430	23-980	885	13	14-164	4-186	957	12	19-677	11-600	1029	12	24-846	20-506
760	10	12-516	15-096	832	21	11-875	23-618	886*	44	17-926	4-088	958	20	22-823	11-405	1030	8	5-064	21-233
761	8	13-863	15-980	833	12	18-832	23-051	887	11	21-170	4-673	959	8	0-050	12-796	1031*	40	8-176	21-214
762	22	16-066	15-549	834*	86	1-090	24-516	888	9	1-502	5-331	960	19	4-144	12-019	1032	8	6-782	22-032
763	35	17-548	16-650	835	18	12-200	24-470	889	12	1-635	5-774	961	28	5-038	12-112	1033	16	6-980	22-038
764*	58	23-581	15-470	836	17	12-380	24-930	890	10	2-438	5-736	962	32	5-872	12-986	1034	17	7-758	22-872
765	40	3-402	16-824	837	18	12-670	24-278	891	17	3-900	5-538	963	8	17-193	12-454	1035	16	16-840	22-026
766	20	6-354	16-018	838	24	13-894	24-059	892	32	4-781	5-284	964	10	18-650	12-865	1036	11	0-587	23-970
767	24	7-819	16-844	839	23	16-346	24-076	893	15	5-875	5-012	965	11	0-809	13-850	1037	23	4-016	23-224
768	13	12-205	16-875	840	13	22-588	24-043	894	11	8-843	5-877	966	15	1-208	13-866	1038*	55	8-144	23-794
769*	50	13-238	16-926	841	8	0-950	25-256	895	21	10-535	5-360	967	8	2-054	13-617	1039	10	14-825	23-594
770	25	13-760	16-209	842	10	3-510	25-340	896	10	13-786	5-009	968	10	5-475	13-650	1040	13	15-984	23-474
771	38	16-691	16-784	843	16	3-653	25-848	897	24	15-036	5-484	969	10	13-035	13-564	1041	11	18-291	23-994
772	14	19-182	16-559	844	11	10-421	25-312	898	10	16-419	5-170	970	10	14-503	13-873	1042	10	18-770	23-488
773	10	19-426	16-741	845	23	16-821	25-917	899	20	16-791	5-206	971	12	16-659	13-283	1043	11	4-774	24-272
774	13	2-642	17-402	846	25	21-776	25-847	900	10	18-167	5-594	972*	40	21-691	13-968	1044*	45	17-856	24-456
775	27	6-854	17-177	847	11	22-280	25-732	901	8	23-100	5-677	973	11	23-551	13-602	1045	10	18-006	25-420
776	9	8-102	17-506					902	28	1-860	6-402	974	13	7-939	14-666	1046	54	8-230	24-740
777*	49	8-163	17-194					903	22	3-292	6-343	975	10	9-348	14-044	1047	24	12-645	25-649
778	40	8-440	17-807					904	10	3-311	6-351	976	20	9-556	14-744	1048	40	21-549	25-179
779	11	11-350	17-475					905	19	3-127	6-304	977*	17	10-783	14-252				
780	25	21-199	17-670					906	32	14-770	6-391	978	9	17-746	14-792				
781	22	22-220	17-020					907	10	14-908	6-148	979*	35	21-094	14-777				
782	8	1-308	18-523					908	10	16-904	6-214	980	12	23-148	14-410				
783	21	2-598	18-688					909	8	18-182	6-312	981*	42	1-419	15-382				
784	9	7-522	18-173					910	10	19-806	6-814	982	34	4-330	15-410				
785	16	9-956	18-217					911	20	0-702	7-183	983	17	4-895	15-430				
786	12	12-964	18-212					912	11	9-286	7-097	984	8	5-209	15-760				
787	16	14-542	18-982					913	11	14-000	7-929	985	18	9-908	15-166				
788	18	14-972	18-012					914	10	14-240	7-834	986	19	16-846	15-838				
789	12	16-549	18-280					915	25	15-279	7-220	987	26	23-270	15-041				
790	15	18-118	18-020					916	8	15-662	7-814	988	18	0-086	16-956				
791	11	18-940	18-680					917	16	16-870	7-914	989	15	4-831	16-350				
792	14	20-052	18-368					918	23	18-054	7-808	990	24	8-800	16-192				
793	12	20-774	18-746					919	12	18-092	7-825	991*	45	12-050	16-412				
794	8	22-103	18-299					920	12	19-125	7-408	992	28	14-596	16-106				
795	11	23-158	18-422					921	12	20-382	7-215	993	9	17-110	16-244				
796	10	25-490	18-315					922	23	21-048	7-874	994	10	19-397	16-003				
797	1	1-268	19-266					923	11	23-752	7-166	995	15	24-046	16-244				



## HYDERABAD ASTROGRAPHIC CATALOGUE, 1900-0.

1101-1457.

R.A. 0<sup>h</sup> 40<sup>m</sup>

Plate S33; 1916 Nov. 25.

## Provisional Constants.

A B C  
-02517 +00429 +0336D E F  
-00432 -02562 -1665

Mag. = 16.0 - 1.05√d

No.	d	x	y
1101	14	1.938	0.845
1102	20	4.068	0.617
1103	23	10.975	0.862
1104	34	11.322	0.706
1105*	98	14.665	0.410
1106	25	17.036	0.146
1107	17	18.203	0.734
1108	10	19.758	0.980
1109	22	24.034	0.494
1110	14	24.102	0.580
1111	26	0.005	1.314
1112	84	0.022	1.608
1113	21	1.737	1.653
1114	32	4.393	1.846
1115	36	6.986	1.814
1116	37	16.846	1.826
1117	15	24.376	1.844
1118	22	0.593	2.478
1119	22	3.684	2.256
1120	31	3.897	2.781
1121	38	10.972	2.783
1122	23	11.274	2.913
1123	36	17.574	2.093
1124	27	23.728	2.535
1125	42	0.218	3.392
1126	22	1.154	3.250
1127*	54	6.016	3.745
1128	34	13.700	3.658
1129	37	13.722	3.663
1130*	78	15.488	3.088
1131	40	21.301	3.200
1132	26	3.106	4.167
1133	15	4.104	4.028
1134	14	10.214	4.540
1135	22	10.328	4.214
1136	17	10.392	4.469
1137	23	11.426	4.577
1138	18	11.460	4.774
1139	36	15.224	4.524
1140	25	24.416	4.978
1141	18	24.776	4.896
1142	17	0.734	5.912
1143	14	8.416	5.171
1144	30	11.702	5.116
1145	37	12.226	5.005
1146	19	15.561	5.713
1147	17	16.458	5.448
1148	15	18.788	5.518
1149	15	18.966	5.025
1150	12	22.809	5.826
1151	11	3.847	6.043
1152	20	4.709	6.843
1153	33	6.347	6.036
1154	14	17.542	6.246
1155	15	19.876	6.896

1156	32	21.790	6.885
1157	16	1.398	7.394
1158	10	2.165	7.615
1159	14	5.076	7.444
1160	21	7.925	7.286
1161	28	12.198	7.286
1162	11	12.984	7.439
1163	31	16.921	7.414
1164	30	24.254	7.584
1165	18	1.430	8.054
1166	22	1.474	8.752
1167	21	2.756	8.604
1168	16	3.123	8.234
1169	17	6.269	8.753
1170	14	9.492	8.065
1171	22	10.844	8.086
1172	24	11.024	8.308
1173	16	13.055	8.075
1174	16	20.514	8.334
1175	34	22.430	8.103
1176	15	25.750	8.808
1177	29	3.492	9.643
1178	15	3.578	9.766
1179	14	7.002	9.852
1180	15	7.524	9.305
1181	24	8.540	9.292
1182	20	10.662	9.264
1183	15	12.399	9.104
1184*	38	12.633	9.904
1185	14	14.912	9.044
1186	11	16.399	9.821
1187*	42	16.600	9.596
1188	14	19.146	9.242
1189	19	21.368	9.733
1190	12	24.434	9.528
1191*	37	1.382	10.752
1192	20	1.555	10.995
1193	30	4.035	10.592
1194	34	6.002	10.692
1195	14	6.809	10.946
1196	14	11.300	10.774
1197	31	11.326	10.993
1198	13	12.608	10.857
1199	16	15.024	10.759
1200	16	15.665	10.976
1201	20	0.502	11.644
1202	13	1.386	11.876
1203	12	6.119	11.470
1204	19	7.214	11.236
1205	18	12.038	11.946
1206	11	14.294	11.584
1207	26	18.452	11.026
1208	20	21.480	11.006
1209	14	22.720	11.604
1210	21	5.482	12.216
1211	11	7.328	12.516
1212*	36	12.276	12.464
1213	28	15.400	12.961
1214	10	19.254	12.175
1215	13	19.946	12.694
1216	18	21.035	12.112
1217	24	24.296	12.106
1218	15	1.249	13.834
1219	23	9.435	13.674
1220	8	10.940	13.738
1221	29	12.444	13.034
1222	24	12.836	13.720
1223	12	19.918	13.120
1224	17	20.976	13.964
1225*	59	23.104	13.522
1226	14	24.188	13.568
1227	18	0.852	14.645

1228	18	9.498	14.402
1229	22	9.972	14.032
1230	11	10.521	14.076
1231	30	0.978	15.274
1232*	44	4.786	15.884
1233	10	5.475	15.574
1234	16	7.880	15.154
1235	16	12.725	15.560
1236	12	20.556	15.656
1237	8	21.055	15.596
1238	22	1.766	16.472
1239	16	2.835	16.855
1240	20	3.116	16.720
1241	17	3.192	16.614
1242	20	3.374	16.330
1243	11	4.086	16.489
1244	14	16.059	16.041
1245	36	20.837	16.063
1246	21	24.936	16.244
1247	38	0.691	17.646
1248	11	5.729	17.458
1249	11	5.807	17.204
1250	11	11.785	17.508
1251	14	14.367	17.943
1252*	34	14.636	17.587
1253	11	16.593	17.618
1254	26	22.779	17.954
1255	14	25.444	17.914
1256*	200	8.836	18.744
1257	10	9.981	18.590
1258	15	12.307	18.042
1259	10	12.707	18.250
1260	11	17.136	18.294
1261	11	18.698	18.595
1262	20	21.125	18.140
1263	27	23.390	18.220
1264	11	18.648	19.528
1265	15	18.004	19.356
1266*	82	20.390	19.560
1267	16	21.902	19.334
1268	36	25.962	19.491
1269	16	0.206	20.584
1270	20	0.539	20.465
1271	10	0.947	20.632
1272	21	2.603	20.727
1273	16	5.250	20.314
1274	16	7.156	20.826
1275	22	10.644	20.643
1276	12	13.899	20.112
1277	26	17.018	20.255
1278	11	21.097	20.573
1279	36	8.467	21.951
1280	12	8.942	21.284
1281*	36	17.449	21.054
1282	16	21.151	21.872
1283	15	21.708	21.468
1284	10	22.617	21.912
1285	14	1.461	22.854
1286	20	4.130	22.886
1287	20	8.104	22.428
1288*	38	18.011	22.328
1289	19	18.621	22.635
1290	23	20.121	22.826
1291	12	24.500	22.903
1292	15	5.585	23.214
1293	20	8.492	23.804
1294	11	11.514	23.688
1295	37	11.690	23.914
1296	18	20.402	23.754
1297	16	23.254	23.584
1298	11	24.507	23.305
1299	13	5.624	24.326

1300	17	11.467	24.208
1301	36	18.116	24.956
1302	16	23.607	24.458
1303	21	3.864	25.005
1304	14	6.185	25.692
1305	29	6.548	25.736
1306	32	10.831	25.028
1307	26	11.384	25.306
1308	18	14.652	25.286
1309	34	18.964	25.516
1310	19	20.438	25.940
1311	24	21.398	25.893
1312	62	23.106	25.178

R.A. 0 <sup>h</sup> 48 <sup>m</sup>			
Plate 883; 1916 Dec. 12.			
Provisional Constants.			
A B C			
-02541 +00001 +2046			
D E F			
+00033 -02578 -2985			
Mag. = 16.0 - 1.05√d			

No.	d	x	y
1351	9	1.823	0.464
1352	8	5.110	0.260
1353	12	8.150	0.972
1354	8	10.316	0.649
1355	8	10.500	0.686
1356	32	13.157	0.526
1357	8	14.080	0.740
1358	11	14.400	0.626
1359*	46	16.246	0.433
1360	12	22.698	0.695
1361	13	10.171	1.971
1362	14	14.312	1.463
1363	33	15.296	1.160
1364	31	15.306	1.480
1365	13	1.528	2.510
1366	9	6.586	2.490
1367	13	7.236	2.388
1368	15	8.562	2.599
1369	8	19.082	2.342
1370	8	21.073	2.277
1371	10	6.490	3.718
1372	16	13.465	3.656
1373	24	22.802	3.147
1374	11	2.230	4.949
1375	9	2.588	4.861
1376	24	7.047	4.954
1377	9	7.436	4.160
1378	11	11.266	4.698
1379	31	15.156	4.209
1380	22	21.857	4.033
1381*	29	24.480	4.786
1382	28	4.474	5.417
1383	8	13.928	5.962
1384	26	18.506	5.979
1385	12	7.704	6.804

1386	23	13.751	6.830
1387*	57	19.140	6.054
1388	10	22.452	6.146
1389	23	24.940	6.094
1390	28	2.082	7.552
1391	27	4.900	7.004
1392	24	6.100	7.130
1393*	32	9.053	7.964
1394*	38	9.522	7.922
1395	26	15.932	7.276
1396	8	17.515	7.531
1397*	34	23.946	7.900
1398*	15	0.263	8.086
1399	9	3.592	8.942
1400	10	5.025	8.496
1401	10	15.372	8.120
1402	10	16.461	8.279
1403	12	17.336	8.246
1404	24	20.214	8.989
1405	23	20.421	8.314
1406	25	20.786	8.725
1407	14	23.132	8.100
1408	24	5.244	9.030
1409	10	5.830	9.235
1410	11	5.841	9.404
1411	26	8.504	9.456
1412	24	11.185	9.140
1413	22	15.152	9.662
1414	8	17.591	9.499
1415	11	14.424	10.203
1416	10	10.478	10.140
1417	50	20.876	10.651
1418	12	21.095	10.020
1419	10	19.840	11.944
1420	17	25.796	11.258
1421	20	2.153	12.160
1422	10	4.944	12.343
1423	10	7.060	12.749
1424	32	11.924	12.899
1425	12	17.070	12.066
1426*	53	18.822	12.222
1427	23	19.980	12.732
1428*	55	1.055	13.197
1429	8	5.665	13.160
1430	29	12.184	13.448
1431	23	12.458	13.862
1432	11	18.626	13.366
1433	8	19.110	13.113
1434	16	20.970	13.175
1435	33	20.986	13.186
1436	11	22.376	13.790
1437	11	25.846	13.000
1438	21	5.338	14.162
1439*	59	13.312	14.970
1440	19	18.556	14.138
1441	11	19.349	14.188
1442	8	4.360	15.394
1443	16	7.964	15.892
1444	32	10.210	15.868
1445	26	12.315	15.790
1446	22	2.820	16.207
1447	20	7.214	16.236
1448	23	11.142	16.962
1449	8	14.544	16.516
1450	32	17.896	16.403
1451	8	23.310	16.760
1452	29	0.175	17.934
1453	9	2.320	17.671
1454	10	7.327	17.694
1455*	25	7.800	17.008
1456*	34	14.618	17.000
1457	32	16.601	17.222

1438	8	16-935	17-937	1515	46	20-052	2-058	1587	8	5-739	12-274	1659	12	21-382	21-087	1718	37	22-446	2-028
1459	22	1-285	18-194	1516	29	21-779	2-894	1588	8	6-166	12-148	1660	15	25-216	21-167	1719	28	25-606	2-213
1460	13	7-400	18-584	1517	34	25-970	2-325	1589	46	6-907	12-732	1661	14	7-996	22-264	1720	8	4-799	3-553
1461	8	9-210	18-815	1518	22	0-338	3-228	1590	9	8-438	12-146	1662	9	14-894	20-034	1721	29	4-835	3-837
1462	19	9-888	18-856	1519	24	8-950	3-689	1591	27	17-944	12-128	1663	11	15-068	22-520	1722	11	5-532	3-024
1463	12	13-937	18-894	1520	10	12-160	3-374	1592	18	19-558	12-416	1664	29	17-052	22-608	1723	12	14-384	3-102
1464	38	15-726	18-769	1521	33	15-746	3-671	1593	46	23-613	12-528	1665	10	17-833	22-429	1724	24	16-087	3-934
1465	32	24-184	18-274	1522	10	18-298	3-667	1594	11	0-058	13-799	1666	54	23-332	22-440	1725	10	18-482	9-112
1466	30	3-865	19-446	1523	17	18-311	3-535	1595	8	2-773	13-162	1667	8	10-117	23-036	1726	10	23-300	3-155
1467	9	4-273	19-189	1524	34	2-036	4-842	1596	25	3-520	13-040	1668	14	17-470	23-254	1727	34	23-438	3-232
1468	8	12-650	19-149	1525	26	5-624	4-750	1597	8	5-237	13-371	1669	33	18-386	23-982	1728	11	24-132	3-425
1469	42	16-155	19-089	1526	41	5-758	4-748	1598	9	11-023	13-640	1670	13	18-538	23-520	1729	22	3-670	4-424
1470	11	18-340	20-812	1527	17	9-484	4-313	1599	11	12-720	13-868	1671	10	20-128	23-066	1730	11	8-028	4-207
1471	8	4-754	20-827	1528	15	9-882	4-400	1600	11	16-231	13-856	1672	28	21-780	23-102	1731	8	17-031	4-553
1472	8	10-944	20-800	1529	9	11-982	4-622	1601	14	17-609	13-490	1673	16	24-730	23-066	1732	8	17-031	4-553
1473	18	13-355	20-998	1530	8	17-976	4-321	1602	33	20-556	13-732	1674	28	25-344	23-622	1733	11	18-899	4-486
1474	11	22-640	20-475	1531	19	18-230	4-653	1603	20	4-458	14-200	1675	10	1-695	24-196	1734	24	5-845	5-994
1475	9	4-944	21-248	1532	17	19-714	4-360	1604	14	12-594	14-739	1676	47	7-029	24-801	1735	9	7-182	5-530
1476	10	16-214	21-246	1533	19	22-326	4-678	1605	13	15-296	14-198	1677	33	8-355	24-094	1736	12	7-391	5-224
1477	15	19-577	21-950	1534	17	11-415	5-855	1606	10	15-852	14-345	1678	25	11-278	24-789	1737	12	11-715	5-866
1478	8	3-296	22-899	1535	26	12-664	5-526	1607	12	15-912	14-550	1679	30	16-311	24-033	1738	22	13-948	5-015
1479	9	8-803	22-400	1536	26	16-888	5-486	1608	35	17-760	14-330	1680	8	16-026	24-282	1739	21	13-998	5-534
1480	13	16-722	22-796	1537	9	24-972	5-384	1609	32	22-390	14-550	1681	27	17-860	24-554	1740	18	19-082	5-410
1481	11	19-838	22-035	1538	14	0-028	6-232	1610	15	7-934	15-247	1682	25	19-390	24-355	1741	25	23-952	5-952
1482	8	19-956	22-418	1539	29	2-514	6-143	1611	8	9-050	15-411	1683	9	2-856	25-062	1742	18	25-036	5-868
1483	8	1-186	23-562	1540	27	7-173	6-346	1612	12	14-582	15-582	1684	8	4-770	25-836	1743	27	25-851	5-285
1484	11	17-975	23-797	1541	9	8-316	6-288	1613	10	14-824	15-855	1685	21	8-174	25-640	1744	9	1-499	6-072
1485	10	22-603	23-800	1542	13	8-610	6-418	1614	9	18-640	15-054	1686	8	8-215	25-333	1745	9	3-210	6-581
1486	49	6-517	24-680	1543	14	10-830	6-606	1615	11	21-424	16-016	1687	9	12-699	25-202	1746	8	3-315	6-612
1487	42	8-866	24-706	1544	26	11-187	6-652	1616	10	1-024	16-832	1688	36	15-272	25-314	1747	9	4-446	6-734
1488	51	20-813	24-968	1545	9	13-634	6-430	1617	19	8-315	16-028	1689	53	21-418	25-310	1748	23	5-805	6-336
1489	50	1-045	25-152	1546	18	15-166	6-514	1618	8	8-926	16-558					1749	10	20-870	6-138
1490	20	7-362	25-982	1547	19	15-750	6-724	1619	12	17-218	16-648					1750	8	2-564	7-026
1491	54	12-352	25-479	1548	27	19-559	6-777	1620	14	21-344	16-593					1751	8	8-236	7-722
				1549	8	24-539	6-022	1621	8	21-854	16-646					1752	40	11-199	7-686
				1550	38	1-542	7-963	1622	31	23-718	16-268					1753	10	13-638	7-420
				1551	8	5-302	7-890	1623	32	23-990	16-634					1754	15	4-998	8-562
				1552	72	11-604	7-920	1624	14	3-166	17-032					1755	9	6-876	8-588
				1553	35	14-425	7-641	1625	8	5-826	17-446					1756	17	7-393	8-439
				1554	24	15-072	7-490	1626	16	6-035	17-026					1757	22	14-174	8-459
				1555	18	0-729	8-176	1627	11	6-222	17-112					1758	15	14-550	8-714
				1556	12	4-222	8-588	1628	11	10-826	17-091					1759	10	14-050	8-512
				1557	25	6-811	8-300	1629	25	15-038	17-216					1760	43	16-872	8-786
				1558	52	11-758	8-054	1630	14	19-528	17-491					1761	10	17-336	8-974
				1559	9	13-417	8-272	1631	8	23-064	17-281					1762	8	19-294	8-445
				1560	10	16-158	8-850	1632	35	1-929	18-334					1763	9	20-706	8-210
				1561	9	17-962	8-367	1633	19	4-391	18-800					1764	10	25-373	8-788
				1562	22	18-055	8-650	1634	40	6-592	18-830					1765	10	0-844	9-304
				1563	10	19-200	8-677	1635	14	12-452	18-552					1766	8	1-531	9-813
				1564	8	12-438	9-149	1636	8	12-738	18-842					1767	13	3-779	9-306
				1565	10	12-598	9-172	1637	22	18-697	18-142					1768	10	5-987	9-700
				1566	18	15-388	9-920	1638	38	22-282	18-480					1769	11	12-349	9-614
				1567	13	15-738	9-657	1639	40	23-119	18-090					1770	23	19-946	9-822
				1568	40	20-774	9-338	1640	9	5-142	19-474					1771	19	20-158	9-366
				1569	8	23-942	9-247	1641	19	7-571	19-318					1772	19	20-566	10-834
				1570	9	1-229	10-214	1642	8	9-977	19-700					1773	11	22-160	10-159
				1571	10	5-588	10-898	1643	47	10-110	19-465					1774	13	2-703	11-252
				1572	9	5-993	10-230	1644	8	12-930	19-378					1775	12	3-954	11-563
				1573	15	8-066	10-803	1645	11	14-117	19-590					1776	12	5-236	11-601
				1574	26	8-466	10-323	1646	12	15-890	19-711					1777	13	15-236	11-268
				1575	10	11-916	10-198	1647	13	0-420	20-560					1778	31	17-916	11-316
				1576	18	12-036	10-660	1648	15	4-307	20-747					1779	19	19-562	11-089
				1577	24	12-956	10-380	1649	10	8-638	20-152					1780	44	0-550	12-590
				1578	21	3-443	11-299	1650	66	11-990	20-118					1781	40	3-498	12-790
				1579	8	8-052	11-554	1651	9	12-135	20-946					1782	36	14-521	12-674
				1580	8	9-840	11-810	1652	18	13-494	20-676					1783	10	16-728	12-714
				1581	8	17-242	11-174	1653	8	18-410	20-350					1784	11	19-723	12-972
				1582	23	17-386	11-106	1654	9	20-236	20-128					1785	12	20-387	12-844
				1583	17	25-778	11-214	1655	9	4-284	21-211					1786	8	4-182	13-280
				1584	17	4-208	12-437	1656	20	14-987	21-036					1787	8	12-183	13-108
				1585	26	4-425	12-774	1657	11	10-212	21-354					1788	38	14-470	13-260
				1586	17	4-982	12-850	1658	13	18-068	21-743					1789	13	14-798	13-694

R.A. 1<sup>h</sup> 4<sup>m</sup>

Plate 858; 1916 Nov. 28.

## Provisional Constants.

1790	9	18-762	13-304	1862	12	9-953	24-871	1936	25	23-664	4-993	2008	22	1-668	14-571	2080	14	7-750	23-890
1791	35	19-904	13-177	1863	19	9-998	24-184	1937	16	25-734	4-734	2009	18	2-146	14-500	2081	18	9-544	23-725
1792	16	3-284	14-465	1864	36	19-794	24-262	1938	34	4-429	5-422	2010	24	5-912	14-580	2082	58	9-646	23-544
1793	9	5-108	14-374	1865	40	3-444	25-728	1939	39	4-890	5-715	2011	20	6-156	14-222	2083	12	16-340	23-832
1794	22	7-070	14-266	1866	10	7-959	25-616	1940	40	5-984	4-434	2012	15	7-198	14-784	2084	14	16-572	23-408
1795	13	7-642	14-294	1867	12	8-888	25-588	1941	16	6-389	5-153	2013	30	8-638	14-123	2085	20	22-702	23-108
1796	40	9-280	14-520	1868	10	10-234	25-244	1942	12	17-448	5-318	2014	14	10-524	14-850	2086	34	23-721	23-973
1797	15	23-014	14-406	1869	20	11-690	25-744	1943	18	20-494	5-768	2015	16	10-780	14-987	2087	10	0-462	24-276
1798	14	23-491	14-342	1870	16	15-446	25-640	1944	12	20-831	5-601	2016	14	13-544	14-947	2088	14	6-222	24-578
1799	25	3-847	15-324	1871	30	15-780	25-913	1945	42	21-722	5-159	2017	16	19-599	14-746	2089	28	6-333	24-357
1800	21	10-322	15-718	1872	21	16-216	25-962	1946	38	22-604	5-324	2018	14	20-522	14-308	2090	14	6-942	24-476
1801	17	16-996	15-762	1873	12	18-318	25-232	1947	18	23-264	5-764	2019	28	22-995	14-450	2091	19	7-512	24-564
1802	12	17-017	15-212	1874	10	23-717	25-518	1948	16	25-123	5-616	2020	13	1-283	15-124	2092	13	8-967	24-464
1803	20	19-089	15-643					1949	14	1-128	6-856	2021	20	1-895	15-864	2093	23	9-760	24-124
1804	11	19-366	15-606					1950	36	2-543	6-106	2022	24	11-474	15-944	2094	14	14-040	24-777
1805	11	19-767	15-306					1951	25	4-220	6-006	2023	18	14-592	15-231	2095	14	17-802	24-604
1806	11	23-228	15-702					1952	17	7-127	6-766	2024	10	15-689	15-040	2096	21	19-982	24-586
1807	25	0-700	16-428					1953	22	13-206	6-370	2025	22	20-887	15-824	2097	36	20-712	24-024
1808	9	0-972	16-462					1954	21	14-972	6-694	2026	17	24-042	15-732	2098	18	23-738	24-060
1809	32	0-976	16-693					1955	18	15-327	6-836	2027	26	6-403	16-778	2099	18	22-818	24-208
1810	10	4-584	16-573					1956	10	17-322	6-074	2028	16	6-984	16-633	2100	13	23-427	24-760
1811	17	5-270	16-044					1957	8	22-411	6-748	2029	13	14-132	16-400	2101	18	23-726	24-773
1812	10	6-154	16-271					1958	11	7-203	7-942	2030	21	15-987	16-544	2102	18	2-474	25-674
1813	8	8-202	16-555					1959	23	7-834	7-860	2031	16	16-472	16-760	2103	32	5-442	25-427
1814	10	14-254	16-089					1960	63	13-151	7-967	2032	16	18-424	16-864	2104	20	5-738	25-483
1815	19	15-332	16-526					1961	22	16-477	7-672	2033	16	0-279	17-366	2105	15	10-971	25-768
1816	40	20-550	16-416					1962	56	21-063	7-374	2034	16	16-347	17-358	2106	15	12-757	25-200
1817	8	2-318	17-670					1963	17	3-982	8-928	2035	13	0-403	18-859	2107	24	20-383	25-317
1818	18	8-488	17-094					1964	14	4-558	8-695	2036	10	1-994	18-278	2108	17	21-084	25-586
1819	8	13-810	17-213					1965	37	6-274	8-277	2037	18	2-919	18-016	2109	36	21-300	25-264
1820	8	17-515	17-480					1966	19	7-580	8-435	2038	15	3-108	18-780	2110	38	22-673	25-526
1821	34	18-640	17-239					1967	28	12-613	8-934	2039	34	8-738	18-184	2111	17	24-571	25-562
1822	10	21-599	17-194					1968	13	3-084	9-376	2040	16	8-772	18-571				
1823	40	0-119	18-156					1969	12	5-182	9-065	2041	16	12-464	18-510				
1824	10	12-371	18-893					1970	72	6-942	9-810	2042	12	12-576	18-748				
1825	12	17-516	18-401					1971	15	8-908	9-864	2043	16	13-134	18-698				
1826	12	19-160	18-908					1972	23	10-781	9-458	2044	32	13-534	18-668				
1827	10	8-651	19-505					1973	16	19-588	9-058	2045	12	15-247	18-557				
1828	25	13-051	19-798					1974	20	0-780	10-328	2046	12	16-156	18-989				
1829	13	16-490	19-406					1975	14	9-273	10-280	2047	27	20-660	18-494				
1830	8	16-903	19-236					1976	16	10-216	10-055	2048	18	22-485	18-656				
1831	11	17-802	19-526					1977	16	16-329	10-106	2049	14	0-251	19-562				
1832	9	3-581	20-116					1978	10	17-022	10-762	2050	12	7-771	19-006				
1833	27	3-610	20-944					1979	14	5-184	11-340	2051	27	11-536	19-186				
1834	17	5-124	20-772					1980	14	5-342	11-736	2052	22	11-736	19-199				
1835	8	14-292	20-800					1981	16	5-471	11-714	2053	14	13-614	19-451				
1836	8	16-938	20-187					1982	24	6-028	11-852	2054	20	17-227	19-182				
1837	11	17-262	20-366					1983	15	6-292	11-804	2055	15	19-895	19-340				
1838	9	22-117	20-636					1984	59	9-793	11-482	2056	15	0-828	20-806				
1839	13	2-258	21-206					1985	15	11-444	11-286	2057	54	7-706	20-796				
1840	15	7-291	21-344					1986	13	17-138	11-806	2058	18	7-896	20-293				
1841	27	8-335	21-995					1987	30	17-719	11-795	2059	45	12-464	20-453				
1842	15	23-424	21-036					1988	19	21-246	11-980	2060	16	12-920	20-666				
1843	12	25-304	21-522					1989	16	22-766	11-424	2061	31	20-070	20-352				
1844	10	25-545	21-350					1990	16	24-264	11-421	2062	31	24-104	20-518				
1845	50	0-382	22-504					1991	12	2-367	12-224	2063	21	24-564	20-846				
1846	23	6-536	22-347					1992	12	11-699	12-748	2064	23	2-136	21-195				
1847	20	9-645	22-321					1993	17	11-742	12-696	2065	12	3-192	21-858				
1848	20	12-926	22-180					1994	31	15-448	12-173	2066	18	4-022	21-664				
1849	23	17-767	22-966					1995	18	18-254	12-410	2067	20	4-258	21-990				
1850	10	25-279	22-352					1996	27	18-268	12-394	2068	18	8-912	21-345				
1851	11	25-613	22-833					1997	14	5-928	13-546	2069	12	8-940	21-550				
1852	8	1-496	23-730					1998	14	8-373	13-523	2070	14	15-926	21-258				
1853	20	1-794	23-116					1999	16	11-193	13-294	2071	14	16-034	21-124				
1854	32	2-414	23-664					2000	12	13-803	13-498	2072	12	18-109	21-416				
1855	8	11-225	23-532					2001	46	14-538	13-247	2073	16	20-912	21-308				
1856	16	13-300	23-128					2002	34	14-759	13-503	2074	36	23-333	21-708				
1857	9	15-236	23-574					2003	15	18-082	13-847	2075	36	25-822	21-633				
1858	9	15-718	23-570					2004	13	20-451	13-936	2076	13	4-006	22-496				
1859	20	17-399	23-468					2005	14	20-935	13-790	2077	20	4-339	22-970				
1860	8	0-049	24-165					2006	21	22-322	13-894	2078	27	6-103	22-190				
1861	17	2-849	24-427					2007	12	23-347	13-984	2079	54	24-218	22-204				

R.A. 1<sup>h</sup> 12<sup>m</sup>  
Plate 834; 1916 Nov. 25.

Provisional Constants.

A B C  
-02578 +00168 +1918

D E F  
-00221 -02554 -1620

Mag. = 16.6 - 1.05√d

No.	d	x	y
1901*	40	4-982	0-27
1902*	52	14-926	0-40
1903	46	25-806	0-88
1904	18	6-574	1-09
1905	36	12-814	1-63
1906	35	24-244	1-99
1907*	42	0-995	2-19
1908	18	1-090	2-85
1909	39	4-162	2-34
1910	15	8-028	2-19
1911*	42	11-728	2-55
1912	13	17-144	2-77
1913	12	19-398	2-15
1914	9	22-046	2-20
1915	20	1-864	3-31
1916	42	1-996	3-38
1917	21	2-718	3-57
1918	36	5-658	3-74
1919	18	12-248	3-15
1920*	57	12-380	3-56
1921	20	12-410	3-90
1922	17	14-142	3-71
1923	22	16-957	3-58
1924	36	21-602	3-53
1925	12	22-748	3-03
1926	26	23-150	3-07
1927	19	23-434	3-03
1928	38	25-474	3-95
1929	13	10-158	4-07
1930	12	12-845	4-75
1931	10	16-558	4-83
1932	20	17-411	4-14
1933	25	18-591	4-16
1934	11	20-404	4-63
1935	31	21-508	4-02



2167	10	11-696	2-275	2239	12	17-234	11-568	2311	26	6-132	20-662	2456	32	16-710	11-243
2168	8	17-458	2-854	2240	9	18-678	11-650	2312	12	8-332	20-356	2457	37	20-313	11-365
2169	8	20-753	2-184	2241	9	21-951	11-569	2313	9	16-666	20-729	2458	14	0-161	12-836
2170	15	24-470	2-518	2242	30	24-008	11-328	2314	15	18-004	20-944	2459	16	1-102	12-262
2171	8	0-546	3-100	2243	35	25-208	11-169	2315	11	21-997	20-063	2460	17	4-675	12-735
2172	18	0-952	3-738	2244	10	25-624	11-134	2316	8	22-754	20-550	2461	32	7-665	12-785
2173	14	1-235	3-109	2245	31	10-807	12-410	2317	23	23-460	20-844	2462	12	7-778	12-218
2174	37	3-278	3-965	2246	10	13-904	12-410	2318	20	23-756	20-362	2463	16	9-028	12-614
2175	26	3-966	3-774	2247	35	17-600	12-034	2319	32	1-368	21-760	2464	12	12-570	12-187
2176	25	13-836	3-549	2248	11	19-202	12-599	2320	28	3-858	21-654	2465	23	18-371	12-136
2177	8	23-988	3-210	2249	15	19-915	12-700	2321	16	6-246	21-100	2466	26	20-602	12-360
2178	14	3-550	4-760	2250	16	21-210	12-958	2322	18	11-487	21-618	2467	14	21-289	12-690
2179	14	9-114	4-350	2251	15	22-422	12-681	2323	40	12-364	21-140	2468	58	21-442	12-868
2180	24	11-314	4-317	2252	17	23-371	12-118	2324	30	18-106	21-314	2469	34	25-500	12-322
2181	28	15-909	4-560	2253	19	0-256	13-960	2325	9	20-648	21-256	2470	37	6-398	13-514
2182	10	19-192	4-519	2254	15	5-509	13-198	2326	41	2-259	22-244	2471	18	6-416	13-516
2183	10	22-495	4-949	2255	10	5-866	13-032	2327	14	6-964	22-834	2472	31	7-994	13-374
2184	15	24-621	4-078	2256	26	7-688	13-100	2328	32	12-204	22-208	2473	20	11-059	13-175
2185	34	0-428	5-305	2257	23	12-124	13-377	2329	15	13-520	22-280	2474	50	11-140	13-026
2186	11	1-094	5-822	2258	11	14-692	13-803	2330	10	16-974	22-854	2475	14	11-634	13-206
2187	20	1-484	5-047	2259	17	15-678	13-838	2331	26	17-284	22-060	2476	35	13-198	13-930
2188	10	3-481	5-727	2260	10	16-595	13-075	2332	33	17-867	22-434	2477	17	22-752	13-643
2189	29	4-956	5-215	2261	16	16-748	13-823	2333	44	19-176	22-595	2478	36	25-104	13-103
2190	20	5-967	5-307	2262	23	0-934	14-511	2334	42	19-932	22-894	2479	19	6-776	14-044
2191	21	8-808	5-735	2263	40	5-776	14-343	2335	14	0-761	23-172	2480	44	8-740	14-866
2192	37	13-786	5-320	2264	12	6-492	14-632	2336	30	7-339	23-918	2481	14	4-630	15-454
2193	44	13-964	5-812	2265	18	7-215	14-270	2337	40	8-978	23-128	2482	36	7-048	15-584
2194	10	17-927	5-564	2266	12	7-255	14-444	2338	41	9-042	23-692	2483	40	10-515	15-016
2195	17	18-450	5-953	2267	11	7-436	14-981	2339	12	9-424	23-002	2484	16	17-352	15-016
2196	12	21-066	5-099	2268	24	12-930	14-640	2340	17	10-958	23-858	2485	36	17-492	15-286
2197	17	5-024	6-754	2269	8	15-478	14-166	2341	8	20-787	23-930	2486	14	18-693	15-791
2198	14	5-553	6-102	2270	26	17-264	14-316	2342	9	22-194	23-664	2487	19	24-599	15-706
2199	8	12-706	6-527	2271	27	17-626	14-722	2343	10	24-774	23-664	2488	30	24-781	15-884
2200	32	16-724	6-928	2272	10	19-086	14-836	2344	8	0-626	24-318	2489	19	1-063	16-641
2201	27	20-974	6-275	2273	11	2-002	15-778	2345	10	0-814	24-123	2490	17	3-702	16-850
2202	11	24-934	6-006	2274	15	7-307	15-818	2346	13	0-896	24-270	2491	16	19-912	16-894
2203	27	5-438	7-993	2275	10	10-991	15-851	2347	10	1-506	24-819	2492	14	24-108	16-075
2204	25	7-422	7-642	2276	11	11-967	15-400	2348	24	1-790	24-020	2493	16	1-422	17-844
2205	13	8-069	7-680	2277	10	12-098	15-573	2349	8	1-807	24-822	2494	21	1-874	17-532
2206	18	9-099	7-147	2278	15	9-647	16-848	2350	16	8-680	24-698	2495	82	2-255	17-902
2207	11	9-606	7-166	2279	10	12-694	16-993	2351	44	9-382	24-136	2496	14	3-480	17-287
2208	23	11-794	7-241	2280	32	13-645	16-616	2352	10	10-831	24-425	2497	21	9-469	17-524
2209	40	20-097	7-674	2281	21	14-100	16-100	2353	10	13-996	24-054	2498	17	20-018	17-551
2210	32	23-244	7-816	2282	8	18-482	16-866	2354	30	21-184	24-366	2499	16	20-276	17-287
2211	30	23-611	7-190	2283	19	23-270	16-497	2355	30	22-006	24-176	2500	12	20-306	17-036
2212	10	25-947	7-232	2284	10	24-186	16-516	2356	10	24-898	24-756	2501	38	25-851	17-123
2213	21	5-802	8-798	2285	16	25-904	16-744	2357	26	0-762	25-590	2502	13	7-622	18-380
2214	30	12-044	8-730	2286	31	4-029	17-252	2358	11	2-667	25-599	2503	16	11-896	18-334
2215	8	15-020	8-040	2287	25	7-562	17-532	2359	15	5-200	25-019	2504	21	18-211	18-100
2216	12	4-710	9-920	2288	27	8-812	17-262	2360	30	8-872	25-858	2505	17	19-723	18-590
2217	17	5-210	9-294	2289	62	8-877	17-832	2361	41	15-406	25-122	2506	57	0-178	19-394
2218	21	7-367	9-450	2290	17	23-609	17-702	2362	10	16-666	25-566	2507	23	0-565	19-520
2219	26	7-500	9-819	2291	21	24-065	17-396	2363	12	18-593	25-020	2508	19	3-462	19-911
2220	15	8-963	9-910	2292	80	24-450	17-774	2364	8	18-990	25-602	2509	30	9-884	19-383
2221	20	13-506	9-260	2293	12	25-674	17-179	2365	22	19-152	25-885	2510	23	12-076	19-128
2222	23	20-067	9-382	2294	12	0-482	18-722	2366	12	23-916	25-106	2511	12	16-993	19-194
2223	41	21-997	9-891	2295	35	6-896	18-754					2512	40	21-821	19-314
2224	74	22-034	9-875	2296	12	10-554	18-202					2513	19	1-319	20-988
2225	26	24-541	9-143	2297	24	11-969	18-768					2514	17	1-608	20-500
2226	40	25-136	9-535	2298	10	16-925	18-259					2515	38	14-358	20-944
2227	33	13-370	10-118	2299	29	16-980	18-362					2516	36	25-492	20-607
2228	14	13-640	10-495	2300	15	19-646	18-758					2517	17	5-835	21-334
2229	43	16-347	10-469	2301	9	22-371	18-163					2518	28	13-004	21-157
2230	17	23-262	10-770	2302	14	5-980	19-208					2519	16	15-320	21-420
2231	8	24-353	10-546	2303	11	8-986	19-015					2520	14	17-175	21-245
2232	40	25-054	10-168	2304	16	16-183	19-117					2521	12	14-640	22-494
2233	12	0-672	11-489	2305	8	21-924	19-092					2522	12	15-591	22-684
2234	12	2-164	11-464	2306	56	22-351	19-237					2523	23	15-605	22-786
2235	18	4-068	11-439	2307	20	22-728	19-368					2524	21	24-696	22-717
2236	9	7-006	11-911	2308	22	25-618	19-800					2525	37	11-280	23-757
2237	9	8-614	11-410	2309	15	2-125	20-560					2526	17	20-501	23-468
2238	11	11-630	11-581	2310	15	2-592	20-884					2527	47	25-248	23-914

R.A. 1<sup>h</sup> 28<sup>m</sup>

Plate 886; 1916 Dec. 13.

## Provisional Constants.

$$A \quad B \quad C$$

$$-02564 + 00847 + 2722$$

$$D \quad E \quad F$$

$$-00832 - 02558 - 1102$$

$$Mag. = 15.9 - 1.05\sqrt{d}$$

No.	d	x	y
2401	32	11-538	0-112
2402	14	3-857	1-260
2403	42	9-220	1-087
2404	19	12-610	1-977
2405	16	21-776	1-502
2406	42	22-244	1-385
2407	20	25-162	1-338
2408	20	2-070	2-642
2409	17	4-760	2-463
2410	37	6-588	2-703
2411	37	7-831	2-565
2412	36	21-372	2-025
2413	14	6-628	3-517
2414	12	1-118	4-166
2415	18	2-236	4-205
2416	54	9-320	4-140
2417	17	10-579	4-740
2418	16	18-076	4-524
2419	44	20-255	4-276
2420	37	21-576	4-396
2421	16	6-748	5-067
2422	13	7-866	5-834
2423	42	11-002	5-157

2528	19	25-976	23-172	2588	18	1-918	6-056	2660	19	11-938	14-529	2732	10	0-210	23-950	2829	43	9-445	4-489
2529	34	3-930	24-600	2589	9	4-658	6-380	2661	10	12-572	14-224	2733	45	2-945	23-950	2830	34	9-954	4-437
2530	26	6-350	24-090	2590	15	5-200	6-058	2662	19	14-852	14-541	2734	17	3-674	23-202	2831	8	10-721	4-022
2531	20	7-403	24-246	2591	20	8-495	6-985	2663	16	15-862	14-576	2735	13	9-590	23-120	2832	31	11-240	4-686
2532	38	13-246	24-624	2592	46	11-299	6-490	2664	8	16-958	14-697	2736	38	9-599	23-160	2833	8	13-863	4-806
2533	52	19-580	24-163	2593	44	15-358	6-806	2665	10	19-236	14-254	2737	13	0-992	24-216	2834	8	14-775	4-008
2534	34	4-265	25-486	2594	8	17-514	6-167	2666	12	23-920	14-224	2738	20	4-167	24-440	2835	20	15-754	4-537
2535	54	11-576	25-108	2595	14	19-180	6-513	2667	14	2-260	15-742	2739	10	6-680	24-762	2836	22	16-440	4-787
2536	34	11-612	25-108	2596	9	21-903	6-756	2668	24	2-437	15-920	2740	10	6-874	24-340	2837	33	22-510	4-694
2537	14	20-139	25-174	2597	12	2-957	7-813	2669	10	4-290	15-373	2741	10	10-216	24-360	2838	8	24-540	5-704
2538	16	21-222	25-532	2598	17	9-858	7-838	2670	10	4-846	15-689	2742	44	21-414	24-883	2839	17	2-035	5-777
				2599	28	11-300	7-930	2671	10	6-097	15-601	2743	18	25-779	24-546	2840	15	3-495	5-777
				2600	8	11-758	7-772	2672	8	8-390	15-688	2744	16	6-128	25-462	2841	26	3-762	5-314
				2601	12	12-229	7-777	2673	77	8-844	15-924	2745	16	10-030	25-105	2842	17	7-728	5-952
				2602	12	12-908	7-006	2674	11	9-588	15-116	2746	26	12-130	25-015	2843	31	9-395	5-311
				2603	14	14-320	7-410	2675	10	14-432	15-866	2747	10	13-732	25-161	2844	41	12-781	5-394
				2604	10	17-106	7-430	2676	21	21-650	15-725	2748	10	18-320	25-196	2845	38	18-579	5-085
				2605	9	18-450	7-886	2677	30	25-469	15-345	2749	8	22-224	25-030	2846	10	20-424	5-716
				2606	37	21-960	7-495	2678	10	1-766	16-115	2750	21	22-510	25-544	2847	18	21-402	5-352
				2607	8	23-188	7-658	2679	10	4-400	16-026	2751	21	25-294	25-075	2848	34	23-414	5-624
				2608	8	6-674	8-763	2680	10	8-080	16-549					2849	12	24-080	5-696
				2609	10	6-715	8-425	2681	12	11-925	16-998					2850	33	24-252	5-728
				2610	9	14-241	8-206	2682	13	12-238	16-378					2851	110	24-254	5-796
				2611	49	16-180	8-659	2683	10	12-296	16-293					2852	10	18-018	6-450
				2612	15	21-978	8-920	2684	28	14-901	16-560					2853	44	20-460	6-323
				2613	39	1-942	9-093	2685	8	15-570	16-410					2854	8	21-886	6-356
				2614	10	4-318	9-152	2686	77	16-778	16-092					2855	8	0-878	7-687
				2615	29	6-312	9-915	2687	37	17-872	16-016					2856	9	4-357	7-499
				2616	40	8-702	9-585	2688	10	18-270	16-450					2857	13	7-333	7-244
				2617	11	13-774	9-195	2689	10	18-504	16-208					2858	22	9-019	7-303
				2618	11	17-353	9-690	2690	10	22-868	16-175					2859	14	21-936	7-666
				2619	10	17-984	9-685	2691	8	23-378	16-300					2860	35	3-804	8-464
				2620	8	19-888	9-674	2692	38	3-512	17-152					2861	19	11-209	8-810
				2621	16	20-735	9-828	2693	12	10-643	17-160					2862	8	14-577	8-502
				2622	11	23-196	9-370	2694	29	21-928	17-921					2863	8	14-494	8-502
				2623	10	24-458	9-588	2695	25	22-856	17-152					2864	34	23-574	8-204
				2624	18	25-106	9-832	2696	19	23-254	17-206					2865	12	0-902	9-400
				2625	9	7-280	10-573	2697	8	1-274	18-095					2866	8	2-166	9-605
				2626	26	11-961	10-037	2698	30	6-668	18-808					2867	28	2-817	9-843
				2627	10	12-328	10-040	2699	10	9-315	18-341					2868	39	5-194	9-676
				2628	10	15-204	10-741	2700	50	14-924	18-151					2869	11	5-996	9-126
				2629	12	17-878	10-682	2701	8	19-028	18-954					2870	10	8-815	9-115
				2630	8	19-216	10-483	2702	23	19-160	18-967					2871	55	9-636	9-062
				2631	10	20-980	10-420	2703	12	24-994	18-510					2872	12	10-072	9-556
				2632	20	23-070	10-106	2704	10	25-103	18-694					2873	12	15-688	9-410
				2633	17	25-732	10-644	2705	25	25-200	18-668					2874	17	16-948	9-358
				2634	21	18-258	11-486	2706	8	5-282	19-498					2875	8	20-421	9-502
				2635	8	19-558	11-870	2707	12	9-980	19-330					2876	22	0-785	10-136
				2636	9	20-970	11-860	2708	10	13-316	19-677					2877	18	3-452	10-648
				2637	20	24-145	11-384	2709	17	14-238	19-790					2878	44	18-418	10-485
				2638	29	3-138	12-359	2710	11	14-418	19-260					2879	28	21-004	10-096
				2639	11	6-850	12-766	2711	14	15-252	19-908					2880	8	24-278	10-922
				2640	10	10-906	12-874	2712	49	16-599	19-768					2881	49	25-036	10-998
				2641	11	11-692	12-730	2713	15	17-455	19-256					2882	26	1-872	11-401
				2642	10	13-278	12-870	2714	26	20-871	19-380					2883	44	5-652	11-793
				2643	10	20-568	12-064	2715	22	21-410	19-964					2884	21	8-750	11-972
				2644	18	24-018	12-217	2716	24	3-176	20-638					2885	31	14-229	11-882
				2645	16	0-398	13-688	2717	10	5-214	20-188					2886	9	15-859	11-710
				2646	29	2-744	13-140	2718	11	7-604	20-912					2887	8	22-825	11-681
				2647	44	8-484	13-644	2719	12	13-490	20-510					2888	28	1-750	12-240
				2648	10	9-680	13-056	2720	22	17-338	20-089					2889	84	8-630	12-170
				2649	21	8-732	13-110	2721	8	17-854	20-031					2890	24	8-635	12-300
				2650	68	9-990	13-056	2722	14	24-966	20-256					2891	13	9-666	12-744
				2651	20	14-983	13-674	2723	35	9-869	21-866					2892	25	9-936	12-608
				2652	8	15-300	13-701	2724	19	2-390	22-754					2893	40	16-404	12-289
				2653	25	15-815	13-354	2725	8	7-551	22-071					2894	27	17-476	12-853
				2654	39	19-852	13-668	2726	13	10-200	22-370					2895	8	17-783	12-702
				2655	40	19-925	13-646	2727	11	14-402	22-615					2896	24	19-486	12-944
				2656	14	5-792	14-541	2728	12	14-699	22-860					2897	36	19-600	12-860
				2657	15	6-494	14-234	2729	19	16-792	22-116					2898	12	13-607	13-256
				2658	26	6-925	14-230	2730	10	19-512	22-926					2899	28	21-186	13-661
				2659	8	8-250	14-190	2731	42	24-170	22-926					2900	16	1-678	14-246

R.A. 1<sup>h</sup> 36<sup>m</sup>

Plate 851; 1916 Nov. 27.

## Provisional Constants.

A B C  
-02561 +00246 +2359D E F  
-00258 -02563 -2627

Mag. = 16.3 - 1.05√d.

No.	d	x	y
2551	9	1.674	0.37
2552	12	4.352	0.86
2553	19	7.211	0.93
2554	12	13.500	0.45
2555	11	21.194	0.14
2556	13	21.392	0.35
2557	32	25.494	0.49
2558	23	25.634	0.02
2559	8	2.114	1.13
2560	13	2.748	1.37
2561	15	4.358	1.49
2562	8	16.554	1.52
2563	31	18.650	1.74
2564	9	20.838	1.55
2565	11	3.729	2.17
2566	14	18.556	2.62
2567	9	18.983	2.44
2568	10	22.393	2.43
2569	10	4.514	3.72
2570	15	5.022	3.70
2571	14	5.610	3.10
2572	10	24.313	3.19
2573	12	12.342	4.43
2574*	36	19.238	4.55
2575*	47	23.108	4.66
2576	23	6.470	5.05
2577	8	6.554	5.05
2578	11	10.572	5.06
2579	10	13.642	5.61
2580	17	13.650	5.60
2581	19	14.144	5.66
2582	10	14.850	5.01
2583	13	20.700	5.01
2584	8	21.453	5.31
2585	12	24.305	5.67
2586	13	25.731	5.71
2587	12	0.005	6.21

R.A. 2 <sup>h</sup> 0 <sup>m</sup>				Plate 855; 1916 Nov. 25.			
Provisional Constants.				A B C			
D E F				Mag. = 15.9 - 1.05√d			
No.	d	x	y	No.	d	x	y
2901	26	4.996	14.306	2973	66	13.786	23.762
2902	14	5.710	14.809	2974	8	14.116	23.681
2903	14	7.340	14.052	2975	17	20.223	23.171
2904*	39	8.496	14.310	2976	10	21.912	23.092
2905	25	8.764	14.206	2977	27	3.644	24.546
2906	23	10.306	14.928	2978	8	6.934	24.356
2907	30	13.240	14.394	2979	29	9.123	24.698
2908	31	17.854	14.062	2980	11	10.796	24.392
2909	33	24.672	14.476	2981	8	18.942	24.562
2910	37	3.234	15.350	2982	8	23.744	24.586
2911	9	4.360	15.321	2983	25	0.386	25.580
2912	10	4.818	15.016	2984	23	3.164	25.080
2913	10	11.837	15.124	2985	28	6.908	25.059
2914*	46	13.572	15.410	2986	11	11.310	25.335
2915	13	16.134	15.279	2987	46	15.665	25.520
2916	16	21.035	15.082	2988	19	16.524	25.757
2917	10	25.242	15.490	2989	8	18.860	25.523
2918	10	0.644	16.208				
2919	9	3.864	16.654				
2920	17	10.885	16.580				
2921	17	14.650	16.804				
2922	33	17.840	16.095				
2923	8	18.270	16.756				
2924	36	0.641	17.184				
2925	29	1.040	17.234				
2926	23	7.674	17.271				
2927	22	10.305	17.610				
2928	30	15.025	17.230				
2929	14	16.092	17.491				
2930	17	24.022	17.305				
2931	13	25.023	17.102				
2932	11	2.910	18.704				
2933	34	3.000	18.676				
2934	31	4.068	18.956				
2935	10	5.653	18.256				
2936	31	7.400	18.710				
2937*	58	13.905	18.111				
2938	13	16.242	18.601				
2939	8	18.076	18.022				
2940	31	24.380	18.996				
2941	22	4.493	19.588				
2942	8	9.368	19.877				
2943	29	12.848	19.614				
2944	18	15.196	19.603				
2945	9	22.556	19.554				
2946	33	25.513	19.406				
2947	25	2.784	20.267				
2948*	46	10.282	20.082				
2949	11	15.093	20.277				
2950	18	17.582	20.520				
2951	13	18.810	20.297				
2952	8	24.518	20.430				
2953	15	6.028	21.220				
2954	8	7.244	21.014				
2955	8	10.470	21.085				
2956	12	14.730	21.620				
2957	25	15.118	21.250				
2958	23	21.590	21.020				
2959	17	24.984	21.600				
2960*	43	2.012	22.942				
2961	38	3.865	22.544				
2962	26	4.050	22.871				
2963	16	5.648	22.664				
2964	12	8.454	22.792				
2965	31	9.082	22.802				
2966	9	11.300	22.608				
2967	10	12.366	22.962				
2968*	60	13.110	22.612				
2969	34	14.874	22.754				
2970	28	20.600	22.163				
2971	39	7.790	23.277				
2972	8	11.080	23.142				

R.A. 1<sup>h</sup> 52<sup>m</sup>

Plate 859; 1916 Nov. 28.

## Provisional Constants.

A B C  
-02560 -00016 +2265D E F  
+00094 -02629 -3020

Mag. = 16.1 - 1.05√d.

No.	d	x	y
3001*	53	2.278	0.492
3002	28	6.606	0.617
3003	14	8.174	0.100
3004	20	8.572	0.219
3005	25	11.765	0.242
3006	19	13.468	0.343
3007	19	16.990	0.671
3008	13	24.600	0.786
3009	25	15.321	1.911
3010	8	15.617	1.698
3011	20	15.982	1.598
3012	16	18.268	1.010
3013	17	21.620	1.682
3014	21	9.472	2.482
3015	8	10.417	2.998
3016	20	14.543	2.189
3017	12	19.927	2.837
3018	12	1.422	3.504
3019	26	2.399	3.870
3020*	60	2.632	3.333
3021	22	4.750	3.950
3022	8	7.104	3.742
3023	8	8.487	3.864
3024	25	10.544	3.453
3025	11	11.413	3.453
3026	9	15.668	3.419
3027	8	19.164	3.908
3028	8	20.591	3.975
3029	20	0.162	4.120
3030	9	2.189	4.727
3031*	34	11.020	4.579

3032	22	24.133	4.084
3033	15	24.429	4.788
3034	28	1.064	5.268
3035	15	1.734	5.735
3036	111	1.894	5.635
3037	12	6.153	5.490
3038	15	7.125	5.200
3039*	41	10.680	5.934
3040	12	15.264	5.478
3041	24	22.365	5.566
3042	12	24.784	5.948
3043	36	5.364	6.940
3044	20	10.178	6.148
3045	9	2.346	7.129
3046	9	4.019	7.782
3047	10	6.957	7.119
3048	20	7.976	7.960
3049*	31	10.249	7.985
3050	10	12.562	7.181
3051	8	20.182	7.148
3052	23	1.246	8.246
3053*	52	10.398	8.848
3054	10	15.134	8.480
3055	9	21.765	8.345
3056	22	24.456	8.500
3057	8	2.197	9.170
3058	10	6.016	9.817
3059	11	7.140	9.894
3060	21	15.562	9.041
3061	10	15.987	9.066
3062	9	1.976	10.957
3063	8	6.300	10.300
3064	19	11.002	10.244
3065*	44	2.731	11.028
3066	12	16.932	11.550
3067	10	18.136	11.728
3068	12	18.196	11.362
3069	18	19.838	11.942
3070	27	20.835	11.496
3071	23	22.490	11.978
3072	11	4.445	12.474
3073	12	5.042	12.946
3074	24	10.770	12.430
3075	11	11.950	12.378
3076*	33	17.240	12.875
3077	9	17.722	12.176
3078*	31	11.458	13.510
3079	15	19.987	13.900
3080	26	20.084	13.852
3081	30	20.908	13.156
3082	29	2.400	14.510
3083	10	8.004	14.956
3084*	52	14.250	14.317
3085*	47	15.224	14.840
3086	17	16.814	14.504
3087	10	22.228	14.132
3088	22	25.500	14.164
3089	8	0.770	15.780
3090	10	11.306	15.242
3091	13	14.887	15.481
3092	12	25.714	15.243
3093	8	4.816	16.382
3094	12	5.758	16.653
3095	9	6.284	16.044
3096	9	15.216	16.304
3097	16	17.770	17.343
3098	16	3.675	17.427
3099	23	4.798	17.834
3100	11	7.342	17.532
3101	39	13.002	17.717
3102	24	13.265	17.028
3103	15	14.806	17.906

3104	16	22.658	17.842
3105	22	25.684	17.920
3106	15	6.058	18.006
3107	22	10.750	18.157
3108*	43	12.951	18.157
3109	9	13.383	18.233
3110	23	14.550	18.062
3111	11	14.692	18.098
3112	10	16.712	18.539
3113	9	17.526	18.321
3114	30	17.920	18.128
3115	10	18.478	18.374
3116*	46	19.244	18.790
3117	10	23.050	18.376
3118	10	0.328	19.603
3119	25	2.144	19.030
3120	8	2.854	19.714
3121	32	3.281	19.432
3122*	36	5.273	19.142
3123	18	7.320	19.906
3124	9	10.368	19.104
3125	8	10.384	19.014
3126	27	16.886	19.433
3127	15	17.748	19.294
3128*	44	24.782	19.688
3129	8	0.482	20.860
3130	8	2.298	20.466
3131	8	2.298	20.408
3132	30	4.990	20.487
3133	8	6.970	20.663
3134	15	9.690	20.928
3135	10	11.426	20.405
3136	21	15.798	20.877
3137	19	16.662	20.048
3138	10	17.230	20.934
3139*	39	22.425	20.514
3140	17	2.772	21.632
3141	12	14.088	21.259
3142	24	16.367	21.966
3143	26	16.452	21.493
3144	9	20.493	21.380
3145	12	22.168	21.613
3146	34	18.319	22.662
3147	21	20.158	22.637
3148	32	24.059	22.421
3149	8	2.506	23.874
3150	13	6.662	23.400
3151	22	16.854	23.472
3152	12	23.623	23.715
3153*	33	24.286	23.064
3154	15	10.907	24.978
3155	29	15.512	24.206
3156	10	16.700	24.152
3157	23	16.992	24.971
3158	11	19.885	24.767
3159	9	2.654	25.520
3160	54	11.462	25.336
3161	15	15.972	25.585
3162	21	16.210	25.092
3163	9	17.550	25.740
3164	12	22.042	25.514



3256	8	0.124	9.742	3328	8	3.761	18.952	R.A. 2 <sup>h</sup> 8 <sup>m</sup>				3456	21	4.080	6.220	3528	19	18.660	12.865
3257	16	5.057	9.710	3329	11	4.933	18.438	Plate 843; 1916 Nov. 26.				3457	38	9.284	6.648	3529	14	20.687	12.934
3258	20	5.684	9.585	3330	10	5.290	18.214	Provisional Constants.				3458	16	9.478	6.360	3530	27	22.366	12.435
3259	10	9.160	9.220	3331	8	11.130	18.175	A B C				3459	8	10.014	6.986	3531	50	22.720	12.407
3260	13	12.754	9.666	3332	44	11.900	18.660	-02564 +00492 +3019				3460	9	12.227	6.220	3532	29	3.779	13.958
3261*	52	12.956	9.800	3333*	16	15.822	18.536	D E F				3461	10	15.044	6.564	3533	10	7.357	13.380
3262	23	19.890	9.352	3334	10	17.060	18.875	-00505 -02551 -2728				3462	22	16.160	6.420	3534	14	8.600	13.608
3263	20	20.037	9.402	3335	9	18.770	18.236	Mag. = 17.4 - 1.05√d				3463	17	17.162	6.730	3535*	47	12.600	13.190
3264	16	21.186	9.752	3336	10	2.070	19.851					3464	23	20.212	6.254	3536	10	12.841	13.190
3265	11	21.474	9.938	3337*	41	6.739	19.308					3465	20	25.709	6.990	3537	18	15.040	13.182
3266	10	21.650	9.547	3338	12	7.834	19.780					3466	21	25.762	6.358	3538	14	19.118	13.810
3267*	40	16.060	10.066	3339	12	16.062	19.198					3467	16	2.101	7.864	3539	9	23.928	13.525
3268*	43	24.060	10.956	3340	9	0.327	20.718					3468	10	2.390	7.028	3540	21	24.578	13.790
3269	14	3.893	11.614	3341	39	0.327	20.718					3469	10	3.846	7.610	3541*	92	9.750	14.865
3270	12	6.192	11.274	3342	10	2.627	20.204					3470	10	5.602	7.108	3542	78	11.180	14.676
3271	23	8.662	11.742	3343	10	5.366	20.688					3471	12	8.420	7.506	3543	40	11.760	14.279
3272	8	11.055	11.915	3344	21	6.574	20.205					3472	11	25.192	7.475	3544	14	12.237	14.369
3273	10	12.460	11.549	3345	10	9.310	20.962					3473	33	25.593	7.091	3545	10	13.170	14.474
3274	36	14.706	11.544	3346	12	12.509	20.532					3474*	73	6.005	8.518	3546	25	13.228	14.224
3275*	22	17.084	11.396	3347	14	14.319	20.302					3475	32	8.740	8.851	3547	23	14.985	14.118
3276	14	17.926	11.520	3348	19	15.172	20.036					3476	16	9.310	8.736	3548	8	15.297	14.100
3277	9	23.096	11.732	3349*	38	21.432	20.614					3477	30	11.660	8.298	3549	23	20.070	14.809
3278	20	24.260	11.584	3350	13	24.196	20.975					3478	40	12.286	8.120	3550	9	20.848	14.246
3279	23	24.627	11.600	3351	11	0.088	21.614					3479	12	15.816	8.634	3551	24	21.877	14.310
3280	17	0.275	12.174	3352	11	5.284	21.886					3480	35	16.498	8.612	3552	10	23.338	14.716
3281	12	3.860	12.159	3353	15	7.533	21.795					3481	14	18.747	8.216	3553*	90	1.984	15.390
3282	11	5.440	12.042	3354	10	10.637	21.210					3482	23	22.900	8.242	3554	25	8.400	15.248
3283	11	10.104	12.154	3355	22	12.833	21.166					3483	14	24.880	8.624	3555*	64	17.984	15.390
3284*	60	10.531	12.469	3356	27	18.994	21.815					3484	29	25.960	8.794	3556	14	22.950	15.030
3285	11	11.470	12.716	3357	13	19.711	21.890					3485	11	2.132	9.444	3557	34	23.412	15.066
3286	17	13.206	12.465	3358	29	1.991	22.596					3486	12	4.223	9.600	3558	22	0.860	16.155
3287	9	14.645	12.056	3359	27	15.904	22.158					3487	41	13.550	9.591	3559	8	1.567	16.712
3288	21	16.794	12.576	3360	24	15.952	22.720					3488	22	17.492	9.604	3560	63	2.360	16.206
3289*	44	17.680	12.684	3361	8	17.406	22.399					3489	14	18.116	9.684	3561	10	6.648	16.428
3290	21	18.322	12.339	3362	35	18.615	22.892					3490	12	19.003	9.744	3562	10	6.721	16.108
3291*	41	23.332	12.012	3363*	42	21.914	22.384					3491	39	19.440	9.086	3563	11	16.592	16.198
3292*	38	24.096	12.851	3364	9	24.040	22.894					3492	10	20.780	9.510	3564	10	23.108	16.242
3293	11	4.370	13.312	3365	19	24.818	22.806					3493	12	21.722	9.040	3565	12	23.350	16.765
3294	14	12.912	13.702	3366	14	1.576	23.897					3494	16	25.790	9.586	3566	19	13.160	17.063
3295	22	13.486	13.584	3367*	35	2.226	23.235					3495*	71	1.874	10.857	3567	12	14.600	17.988
3296	10	17.838	13.626	3368	20	13.375	23.068					3496	11	3.383	11.275	3568	57	16.212	17.424
3297*	40	20.120	13.820	3369	14	14.185	23.577					3497	19	8.366	10.600	3569	10	18.560	17.445
3298	9	0.042	14.332	3370	22	20.514	23.120					3498	10	13.879	10.604	3570	12	20.068	17.060
3299	20	3.315	14.321	3371	43	23.064	23.514					3499	22	15.130	10.376	3571	8	21.044	17.556
3300	19	25.923	14.083	3372	15	5.027	24.606					3500	9	21.960	10.388	3572	49	21.052	17.636
3301	12	3.545	15.396	3373	12	14.014	24.315					3501	10	23.114	10.898	3573	15	22.450	17.610
3302	8	3.544	15.012	3374	15	21.054	24.538					3502	10	25.626	10.788	3574	20	22.712	17.151
3303	10	4.420	15.200	3375	10	21.536	24.390					3503	10	0.926	11.646	3575	17	22.967	17.190
3304	8	6.155	15.940	3376	10	25.806	24.781					3504*	71	1.160	11.923	3576	18	23.570	17.268
3305	12	6.982	15.736	3377	60	9.902	25.417					3505	33	2.086	11.482	3577	20	11.744	18.772
3306*	33	8.922	15.438	3378	10	12.594	25.550					3506	43	2.452	11.495	3578	11	17.028	18.202
3307	10	21.284	15.430	3379	11	13.251	25.569					3507	10	4.420	11.100	3579	10	17.408	18.840
3308*	62	24.110	15.490	3380	9	14.800	25.462					3508	25	4.972	11.393	3580	12	18.350	18.960
3309	9	12.080	16.596	3381	8	15.762	25.624					3509	11	6.810	11.112	3581	25	22.106	18.970
3310	9	15.024	16.549	3382	38	16.152	25.184					3510	21	7.530	11.300	3582	31	22.994	18.110
3311	11	18.524	16.458	3383	36	23.043	25.564					3511	10	8.016	11.487	3583	10	23.002	18.062
3312	22	18.661	16.447									3512	44	8.092	11.935	3584	10	1.815	19.867
3313	27	18.755	16.619									3513	12	8.628	11.830	3585	18	4.540	19.970
3314	21	18.980	16.814									3514	10	10.310	11.590	3586	39	4.579	19.144
3315	13	22.974	16.242									3515	9	10.780	11.482	3587	10	6.420	19.052
3316	43	24.478	16.308									3516	11	12.750	11.570	3588	10	15.690	19.659
3317	20	8.756	17.824									3517	18	13.226	11.960	3589	26	18.978	19.565
3318	9	9.406	17.895									3518	26	13.442	11.413	3590	31	20.713	19.115
3319	14	9.870	17.134									3519*	45	17.869	11.255	3591	10	25.006	19.824
3320	10	12.274	17.913									3520*	38	17.960	11.198	3592	23	2.144	20.872
3321	19	14.216	17.530									3521	10	18.100	11.666	3593	12	7.810	20.394
3322	16	14.224	17.565									3522	26	18.100	11.368	3594	30	7.992	20.848
3323	10	20.402	17.694									3523	31	19.590	11.383	3595	15	9.750	20.540
3324	13	0.525	18.035									3524	59	1.935	12.752	3596	22	10.880	20.230
3325	11	0.925	18.566									3525	11	7.898	12.682	3597	12	14.444	20.319
3326	8	1.274	18.928									3526	8	15.243	12.071	3598	27	16.854	20.004
3327	22	3.553	18.070									3527	17	15.673	12.964	3599*	77	21.550	20.515

3600	8	24-894	20-671	3655	38	12-624	1-287	3727	16	0-699	11-278	3799	36	2-982	22-263	3861	10	21-734	0-910
3601	23	4-070	21-530	3656	26	16-735	1-268	3728	38	7-658	11-737	3800	19	7-954	22-494	3862	10	0-352	1-396
3602	51	4-310	21-076	3657	20	18-032	1-044	3729	17	8-078	11-924	3801	16	10-806	22-248	3863	20	2-958	1-960
3603	15	7-802	21-420	3658	38	19-318	1-040	3730	20	10-410	11-212	3802	13	14-244	22-564	3864	27	8-294	1-290
3604	15	7-957	21-113	3659	14	19-840	1-445	3731	18	17-120	11-092	3803	39	15-071	22-706	3865	23	13-751	1-480
3605	15	9-443	21-216	3660	12	22-648	1-464	3732	21	17-161	11-368	3804	21	17-031	22-174	3866	21	23-078	1-339
3606	27	12-257	21-526	3661	19	2-066	2-047	3733	22	19-226	11-186	3805	96	10-184	22-022	3867	8	0-124	2-626
3607	9	16-150	21-724	3662	32	4-538	2-911	3734	23	19-571	11-162	3806	22	21-428	22-488	3868	12	1-628	2-055
3608	28	19-064	21-856	3663	13	17-866	2-850	3735	31	19-684	11-209	3807	37	23-813	22-293	3869	44	4-826	2-577
3609	22	20-096	21-810	3664	21	23-918	2-130	3736	49	23-218	11-446	3808	12	24-376	22-234	3870	59	6-057	2-929
3610	28	25-270	21-900	3665	34	25-248	2-055	3737	46	0-316	12-798	3809	10	1-890	23-302	3871	9	7-435	2-324
3611	10	2-010	22-796	3666	18	2-886	3-831	3738	31	5-049	12-714	3810	34	3-318	23-710	3872	21	19-126	2-895
3612	26	2-792	22-700	3667	10	3-474	3-324	3739	18	6-811	12-875	3811	26	5-157	23-964	3873	13	19-680	2-034
3613	19	7-256	22-976	3668	16	3-702	3-075	3740	36	17-104	12-836	3812	25	5-510	23-124	3874	45	21-010	2-791
3614	11	18-106	22-478	3669	26	6-392	3-650	3741	18	22-938	12-614	3813	23	5-845	23-095	3875	19	23-742	2-927
3615	70	1-040	23-428	3670	60	8-034	3-000	3742	23	6-280	13-463	3814	28	11-014	23-024	3876	25	23-811	2-645
3616	25	5-712	23-594	3671	29	9-484	3-754	3743	15	13-434	13-048	3815	41	12-464	23-100	3877	11	25-002	2-069
3617	16	6-740	23-190	3672	21	11-942	3-122	3744	34	13-724	13-082	3816	18	16-490	23-510	3878	10	5-728	3-380
3618	15	6-933	23-219	3673	21	15-242	3-963	3745	96	16-703	13-960	3817	24	18-868	23-908	3879	10	6-320	3-138
3619	24	9-522	23-940	3674	12	2-800	4-936	3746	38	25-676	13-496	3818	20	20-082	23-614	3880	10	8-366	3-181
3620	25	12-165	23-438	3675	58	4-651	4-755	3747	20	2-104	14-164	3819	30	21-254	23-960	3881	22	13-519	3-380
3621	19	18-522	23-276	3676	59	5-186	4-036	3748	11	4-056	14-306	3820	21	25-402	23-636	3882	10	14-081	3-100
3622	24	20-040	23-860	3677	39	8-598	4-177	3749	12	9-886	14-038	3821	30	4-114	24-146	3883	12	16-030	3-598
3623	20	25-590	23-348	3678	37	9-077	4-866	3750	28	16-156	14-155	3822	25	5-074	24-398	3884	8	16-164	3-508
3624	8	2-721	24-232	3679	26	10-382	4-213	3751	17	25-076	14-536	3823	44	8-958	24-479	3885	20	17-272	3-719
3625	22	3-810	24-664	3680	23	10-986	4-562	3752	31	25-115	14-276	3824	56	9-402	24-678	3886	18	17-575	3-352
3626	17	6-886	24-883	3681	10	16-254	4-026	3753	22	0-576	15-420	3825	38	11-649	24-061	3887	12	20-070	3-776
3627	13	8-060	24-569	3682	27	21-249	4-072	3754	14	0-964	15-102	3826	37	16-264	24-151	3888	10	22-077	3-776
3628	57	8-346	24-184	3683	13	8-412	5-084	3755	29	1-044	15-450	3827	40	19-066	24-568	3889	25	5-420	4-535
3629	36	8-885	24-152	3684	44	15-319	5-090	3756	38	7-532	15-878	3828	42	22-232	24-134	3890	29	9-868	4-840
3630	9	14-335	24-274	3685	58	15-598	5-804	3757	36	17-374	15-172	3829	19	9-884	25-078	3891	8	13-131	4-910
3631	10	17-311	24-268	3686	30	17-644	5-397	3758	22	19-764	15-706	3830	34	10-592	25-400	3892	39	23-785	4-160
3632	11	10-204	24-054	3687	14	19-225	5-306	3759	32	21-842	15-378	3831	19	13-285	25-432	3893	64	16-790	5-635
3633	14	20-338	24-444	3688	18	0-676	6-164	3760	39	23-128	15-766	3832	18	13-438	25-724	3894	41	17-888	5-945
3634	60	20-585	24-966	3689	22	3-294	6-714	3761	34	5-026	16-654	3833	36	15-285	25-393	3895	46	20-410	5-672
3635	54	1-046	25-478	3690	22	7-010	6-925	3762	25	13-766	16-557	3834	22	21-494	25-440	3896	18	21-832	5-523
3636	15	8-660	25-851	3691	18	11-290	6-084	3763	42	17-867	16-010	3835	21	22-600	25-427	3897	18	25-830	5-822
3637	11	9-630	25-437	3692	12	14-514	6-744	3764	18	19-236	16-476	3836	46	24-586	25-977	3898	13	5-720	6-932
3638	13	11-032	25-154	3693	36	17-586	6-254	3765	48	20-222	16-580					3899	18	7-922	6-185
3639	51	14-672	25-430	3694	24	18-011	6-901	3766	15	24-612	16-974					3900	8	14-741	6-608
3640	25	17-790	25-634	3695	34	18-028	6-942	3767	18	0-370	17-544					3901	8	24-330	6-119
3641	10	18-983	25-672	3696	16	18-597	6-658	3768	26	0-624	17-581					3902	12	25-920	6-849
3642	18	19-086	25-988	3697	31	19-084	6-985	3769	17	1-225	17-649					3903	15	2-699	7-255
3643	24	21-769	25-786	3698	24	20-462	6-266	3770	36	6-772	17-016					3904	17	2-929	7-914
				3699	18	2-735	7-836	3771	20	9-662	17-752					3905	51	7-758	7-884
				3700	30	3-248	7-347	3772	14	12-100	17-302					3906	12	10-368	7-814
				3701	44	4-948	7-791	3773	26	17-254	17-332					3907	27	12-944	7-606
				3702	24	13-156	7-146	3774	41	23-314	17-400					3908	13	0-100	8-892
				3703	18	13-802	7-780	3775	19	23-335	17-718					3909	45	0-287	8-800
				3704	56	14-226	7-576	3776	14	0-111	18-010					3910	11	1-936	8-223
				3705	37	18-120	7-113	3777	36	0-660	18-498					3911	8	6-394	8-208
				3706	13	21-183	7-164	3778	46	0-208	18-893					3912	24	6-403	8-834
				3707	28	24-937	7-341	3779	58	10-894	18-174					3913	23	7-175	8-387
				3708	30	0-454	8-634	3780	23	4-532	19-106					3914	11	9-118	8-532
				3709	18	2-435	8-096	3781	14	6-492	19-284					3915	10	12-400	8-841
				3710	36	3-138	8-052	3782	20	8-432	19-974					3916	50	14-561	8-927
				3711	16	5-880	8-359	3783	16	9-732	19-570					3917	9	17-430	8-938
				3712	38	12-579	8-929	3784	37	12-651	19-435					3918	9	17-611	8-502
				3713	29	13-058	8-210	3785	31	13-272	19-511					3919	25	21-568	8-205
				3714	18	16-526	8-422	3786	16	15-565	19-394					3920	9	23-232	8-942
				3715	21	22-324	8-954	3787	68	23-188	19-774					3921	9	25-892	8-278
				3716	50	22-514	8-867	3788	36	25-606	19-583					3922	20	8-473	9-614
				3717	19	24-167	8-304	3789	25	4-151	20-394					3923	14	8-612	9-088
				3718	25	25-160	8-005	3790	57	6-664	20-465					3924	9	11-198	9-060
				3719	19	3-359	9-945	3791	21	13-984	20-978					3925	8	22-370	9-129
				3720	32	3-519	9-148	3792	20	16-784	20-284					3926	17	23-700	9-154
				3721	25	5-794	9-017	3793	43	24-513	20-991					3927	22	25-210	9-176
				3722	37	14-090	9-568	3794	19	5-479	21-345					3928	22	1-744	10-166
				3723	14	6-469	10-610	3795	38	6-639	21-344					3929	8	10-254	10-732
				3724	16	8-294	10-384	3796	10	14-061	21-791					3930	17	12-470	10-920
				3725	20	9-865	10-150	3797</											



				<b>R.A. 2<sup>h</sup> 32<sup>m</sup></b>							
				Plate 836; 1916 Nov. 25.							
				<i>Provisional Constants.</i>							
				A B C							
				-02546 +00285 +2246							
				D E F							
				-00324 -02564 -2632							
				<i>Mag. = 16.2 - 1.05√d</i>							
				No. d x y							
3933	20	25.118	10.320	4005	39	6.155	19.590	4156	26	8.522	6.276
3934	8	25.471	10.098	4006	29	9.688	19.850	4157	14	9.356	6.653
3935*	50	1.015	11.376	4007	12	14.070	19.858	4158	16	11.914	6.578
3936	10	6.822	11.756	4008	10	25.224	19.750	4159	13	12.236	6.642
3937	10	8.483	11.488	4009	39	2.410	20.905	4160	15	20.356	6.922
3938	10	13.452	11.304	4010	12	6.238	20.760	4161	35	23.172	6.271
3939	10	17.994	11.440	4011	35	8.384	20.928	4162	8	23.490	6.544
3940	11	22.058	11.306	4012	11	11.739	20.019	4163	13	25.744	6.453
3941	15	4.748	12.170	4013	11	14.160	20.062	4164*	59	11.256	7.484
3942	10	4.964	12.854	4014	8	24.390	20.231	4165*	47	12.216	7.249
3943	12	6.918	12.538	4015	10	0.870	21.423	4166*	42	16.744	7.563
3944	17	17.225	12.848	4016	8	2.178	21.444	4167	37	19.694	7.061
3945	10	18.440	12.510	4017	11	2.412	21.560	4168	13	23.570	7.108
3946	27	3.500	13.400	4018	26	4.448	21.528	4169	14	3.590	8.326
3947	8	4.530	13.162	4019	10	6.420	21.378	4170	29	5.874	8.710
3948	10	10.972	13.666	4020	35	16.401	21.400	4171	18	8.043	8.502
3949	15	18.026	13.750	4021	48	25.360	21.694	4172	8	13.874	8.210
3950	10	20.658	13.364	4022	28	1.726	22.216	4173	10	14.489	8.175
3951	16	21.810	13.950	4023	9	6.090	22.700	4174	11	16.672	8.933
3952	10	22.824	13.900	4024	10	7.476	22.300	4175	28	20.218	8.672
3953	12	22.918	13.275	4025	9	10.256	22.294	4176	22	24.133	8.326
3954	17	24.026	13.324	4026	13	10.965	22.832	4177	27	24.396	8.266
3955	11	24.367	13.401	4027	26	12.460	22.874	4178	8	25.447	8.905
3956	11	2.910	14.447	4028	8	19.750	22.532	4179	8	0.070	9.212
3957	23	2.945	14.185	4029	15	3.328	23.544	4180	10	0.931	9.010
3958	19	8.000	14.496	4030	10	8.672	23.874	4181	26	1.404	9.210
3959	14	12.154	14.880	4031	19	9.978	23.065	4182	27	2.912	9.229
3960	10	12.560	14.050	4032	10	9.781	23.585	4183	9	3.066	9.320
3961	13	14.725	14.710	4033*	50	14.243	23.854	4184*	78	8.404	9.207
3962	35	16.080	14.112	4034	11	17.108	23.648	4185	29	17.523	9.750
3963	34	21.482	14.334	4035	10	18.606	23.726	4186	10	18.478	9.858
3964	10	22.744	14.916	4036	9	20.430	23.766	4187	13	19.700	9.340
3965	42	0.970	15.666	4037	12	21.221	23.866	4188	14	19.804	9.020
3966	20	4.720	15.787	4038*	47	22.896	23.035	4189	8	22.015	9.570
3967	28	5.158	15.320	4039	29	23.939	23.242	4190	11	24.490	9.760
3968	10	8.598	15.210	4040	9	25.550	23.846	4191	18	25.786	9.425
3969	11	11.120	15.325	4041	36	0.162	24.074	4192	25	2.827	10.374
3970	8	11.484	15.040	4042	50	4.110	24.676	4193	11	3.453	10.154
3971	14	19.050	15.758	4043	14	7.850	24.964	4194	17	8.731	10.984
3972	13	22.332	15.175	4044*	78	13.549	24.878	4195	19	9.397	10.666
3973	35	25.497	15.816	4045	10	14.084	24.242	4196*	42	13.412	10.389
3974	20	4.350	16.394	4046	11	0.544	25.363	4197	10	16.747	10.870
3975	10	7.435	16.260	4047	31	2.537	25.890	4198	23	23.300	10.056
3976	10	8.670	16.132	4048	8	3.556	25.220	4199*	40	23.965	10.046
3977	10	15.744	16.390	4049	12	5.892	25.946	4200	8	3.440	11.246
3978	21	22.449	16.932	4050	10	7.960	25.822	4201	19	4.330	11.928
3979	8	22.740	16.910	4051	13	11.001	25.433	4202	28	5.107	11.444
3980	21	23.212	16.731	4052	15	11.858	25.345	4203*	45	16.933	11.938
3981	48	1.171	17.329	4053	11	14.050	25.952	4204	26	18.404	11.580
3982	10	1.198	17.644	4054	9	14.110	25.074	4205	15	23.322	11.656
3983	10	4.474	17.458	4055	9	18.445	25.250	4206	10	24.126	11.434
3984	8	11.924	17.884	4056	26	20.594	25.330	4207	17	24.288	11.720
3985	15	12.348	17.578	4057	9	21.861	25.558	4208	32	25.284	11.646
3986	34	15.970	17.374	4058	12	23.670	25.633	4209*	41	3.045	12.708
3987*	41	20.840	17.422					4210	30	4.064	12.200
3988	8	22.374	17.208					4211	14	5.822	12.776
3989	10	7.681	18.521					4212	13	9.407	12.370
3990	10	8.504	18.897					4213	9	13.669	12.912
3991	10	9.775	18.821					4214	10	15.307	12.863
3992	10	14.632	18.534					4215	28	23.514	12.219
3993	13	16.898	18.000					4216	10	0.658	13.346
3994	18	16.960	18.900					4217	23	1.764	13.388
3995	8	18.280	18.830					4218	12	2.103	13.464
3996	18	19.486	18.490					4219	27	3.914	13.174
3997	33	22.310	18.564					4220	14	9.342	13.584
3998*	47	23.868	18.056					4221*	78	19.006	13.190
3999	8	23.965	18.676					4222	18	13.388	13.410
4000	35	24.610	18.340					4223	18	14.586	13.910
4001	10	25.660	18.502					4224	8	22.795	13.432
4002*	67	1.066	19.702					4225	12	0.495	14.992
4003	46	1.084	19.706					4226	8	4.929	14.691
4004	16	3.490	19.488					4227	21	6.776	14.500

4300	27	4-198	23-586	4375	12	9-406	3-242	4447	8	5-181	11-582	4519	18	5-444	20-962	4605	24	4-440	1-238																
4301	29	7-200	23-260	4376	12	18-938	3-720	4448	8	5-710	11-646	4520	11	9-371	20-920	4606	10	6-229	1-185																
4302	20	11-396	23-156	4377	67	24-067	3-464	4449	39	6-285	11-735	4521	25	16-200	20-660	4607	9	6-774	1-622																
4303	32	16-062	23-718	4378	11	10-074	4-485	4450	41	10-186	11-381	4522	23	16-678	20-075	4608	40	7-495	1-709																
4304	20	16-180	23-880	4379	32	10-366	4-316	4451	8	11-820	11-390	4523	48	21-830	20-634	4609	22	11-707	1-152																
4305	30	8-268	24-900	4380	13	12-179	4-896	4452	20	12-592	11-599	4524	8	24-224	20-982	4610	29	11-832	1-724																
4306	8	11-315	24-525	4381	14	12-422	4-332	4453	13	14-672	11-545	4525	24	25-930	20-961	4611	69	13-220	1-128																
4307	16	12-216	24-485	4382	13	17-496	4-168	4454	23	20-414	11-619	4526	49	8-988	21-707	4612	38	14-090	1-715																
4308	25	16-102	24-650	4383	13	18-648	4-955	4455	8	21-434	11-218	4527	33	10-984	21-630	4613	15	14-625	1-186																
4309	12	18-293	24-490	4384	11	19-174	4-417	4456	12	21-631	11-812	4528	28	13-122	21-048	4614	19	17-514	1-760																
4310	27	23-422	24-919	4385	10	24-372	4-803	4457	22	1-246	12-360	4529	20	14-119	21-580	4615	18	19-441	1-430																
4311	49	25-190	24-440	4386	30	3-440	5-666	4458	23	7-382	12-516	4530	18	17-602	21-552	4616	8	20-148	1-328																
4312	20	1-518	25-099	4387	32	5-909	5-866	4459	50	13-994	12-498	4531	24	21-020	21-466	4617	12	21-060	1-412																
4313	32	5-074	25-206	4388	52	8-495	5-016	4460	47	20-644	12-170	4532	51	21-265	21-008	4618	10	21-778	1-150																
4314	8	8-452	25-429	4389	19	8-598	5-996	4461	51	23-066	12-079	4533	54	22-220	21-357	4619	8	22-244	1-201																
4315	8	9-042	25-376	4390	8	9-030	5-714	4462	36	23-586	12-392	4534	27	0-634	22-077	4620	13	22-733	1-165																
4316	20	12-284	25-444	4391	27	15-848	5-932	4463	8	24-777	12-375	4535	11	3-833	22-502	4621	22	24-860	1-509																
4317	38	17-414	25-819	4392	10	16-184	5-507	4464	8	6-518	13-036	4536	10	4-033	22-335	4622	50	25-488	1-077																
4318	10	17-950	25-642	4393	10	17-252	5-747	4465	18	11-717	13-336	4537	26	5-550	22-410	4623	26	4-544	2-839																
4319	21	20-956	25-239	4394	30	17-069	5-530	4466	13	12-893	13-574	4538	35	5-700	22-088	4624	16	7-364	2-143																
4320	8	23-035	25-220	4395	27	21-860	5-373	4467	10	16-839	13-000	4539	8	7-582	22-616	4625	10	8-958	2-571																
4321	31	24-955	25-410	4396	11	23-124	5-612	4468	34	19-856	13-066	4540	12	13-269	22-922	4626	13	11-625	2-143																
4322	24	25-646	25-615	4397	35	0-852	6-412	4469	8	21-970	13-280	4541	13	15-564	22-020	4627	12	14-126	2-152																
R.A. 2 <sup>h</sup> 40 <sup>m</sup> Plate 819; 1916 Nov. 19. Provisional Constants. A B C -02561 +00047 +2125 D E F -00049 -02583 -1918 Mag. = 16.6 - 1.05√d																				4398	12	3-429	6-572	4470	21	0-229	14-540	4542	49	18-267	22-613	4628	60	1-690	3-508
																				4399	16	11-350	6-152	4471	23	3-534	14-306	4543	12	19-917	22-393	4629	54	3-650	3-629
																				4400	9	13-742	6-380	4472	12	5-590	14-182	4544	23	20-040	22-505	4630	10	6-787	3-390
																				4401	35	10-432	6-871	4473	40	7-290	14-902	4545	8	24-128	22-403	4631	14	10-599	3-607
																				4402	15	21-371	6-602	4474	14	12-034	14-485	4546	9	24-826	22-036	4632	20	14-440	3-183
																				4403	31	24-098	6-872	4475	46	13-800	14-860	4547	10	8-414	23-356	4633	16	15-456	3-514
																				4404	12	1-259	7-333	4476	8	19-300	14-336	4548	8	10-775	23-128	4634	52	18-150	3-112
																				4405	13	5-732	7-428	4477	36	21-052	14-058	4549	24	24-784	23-184	4635	12	20-927	3-183
																				4406	34	6-286	7-080	4478	12	21-952	14-214	4550	52	3-020	24-566	4636	19	21-006	3-079
																				4407	12	9-696	7-978	4479	8	1-297	15-783	4551	13	9-506	24-520	4637	9	23-672	3-163
R.A. 2 <sup>h</sup> 48 <sup>m</sup> Plate 845; 1916 Nov. 26. Provisional Constants. A B C -02573 +00205 +2140 D E F -00180 -02573 -1622 Mag. = 16.4 - 1.05√d																				4408	8	14-730	7-058	4480	60	3-314	15-410	4552	126	14-146	24-125	4638	11	20-020	4-846
																				4409	10	15-944	7-472	4481	8	9-642	15-102	4553	11	15-342	24-185	4639	10	6-464	4-613
																				4410	20	17-602	7-222	4482	15	12-810	15-050	4554	15	16-132	24-144	4640	12	9-928	4-854
																				4411	22	22-235	7-797	4483	20	16-657	15-731	4555	31	25-708	24-764	4641	28	11-208	4-090
																				4412	20	1-834	8-459	4484	16	21-515	15-808	4556	24	1-264	25-061	4642	19	13-202	4-072
																				4413	15	6-906	8-607	4485	9	21-708	15-167	4557	31	2-800	25-536	4643	8	20-866	4-524
																				4414	12	12-188	8-169	4486	42	0-194	16-207	4558	23	3-494	25-740	4644	35	23-237	4-585
																				4415	11	13-352	8-570	4487	8	1-573	16-517	4559	16	5-704	25-743	4645	18	25-165	4-466
																				4416	17	14-761	8-062	4488	40	4-394	16-826	4560	33	11-752	25-458	4646	36	25-479	4-474
																				4417	16	15-267	8-706	4489	11	5-636	16-994	4561	37	20-575	25-022	4647	10	0-776	5-670
No. d x y																				4418	8	21-064	8-084	4490	18	6-093	16-275	4562	55	22-941	25-366	4648	22	11-996	5-506
																				4419	27	21-235	8-202	4491	9	15-026	16-424	4563	12	24-974	25-560	4649	10	15-760	5-534
																				4420	15	21-296	8-284	4492	25	15-091	16-410	4564	12	25-992	25-974	4650	19	17-848	5-785
																				4421	9	21-561	8-235	4493	18	15-840	16-672					4651	23	18-442	5-558
																				4422	8	25-226	8-077	4494	17	19-746	16-115					4652	15	19-129	5-712
																				4423	8	1-972	9-516	4495	11	25-983	16-117					4653	10	20-830	5-778
																				4424	24	2-100	9-057	4496	10	1-923	17-737					4654	49	22-119	5-225
																				4425	16	3-496	9-548	4497	16	4-186	17-710					4655	32	1-767	6-914
																				4426	25	12-238	9-251	4498	13	6-263	17-018					4656	8	2-486	6-678
																				4427	28	14-434	9-500	4499	8	15-284	17-282					4657	34	9-450	6-275
																				4428	37	15-923	9-810	4500	36	15-970	17-858					4658	8	9-684	6-220
No. d x y																				4429	13	16-470	9-119	4501	24	18-066	17-370					4659	8	10-054	6-150
																				4430	40	22-410	9-434	4502	45	18-218	17-882					4660	18	11-186	6-098
																				4431	19	1-012	10-198	4503	13	23-584	17-630					4661	19	11-244	6-799
																				4432	41	1-674	10-182	4504	33	23-590	17-070					4662	19	12-408	6-570
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										R.A. 3 <sup>h</sup> 12 <sup>m</sup>																
										Plate 826; 1916 Nov. 20.																
										Provisional Constants.																
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										D			E			F										
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5																										

R.A. 3 <sup>h</sup> 20 <sup>m</sup>				Plate 811; 1916 Nov. 18.			
Provisional Constants.				A B C			
D E F				-02560 +00418 +1376			
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5416	8	5-638	11-676	5488	8	16-407	19-822
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5419	10	15-838	11-992	5491	20	19-082	19-124
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5428	65	3-377	12-511	5500	54	15-288	21-288
5429	47	4-206	12-362	5501	20	19-182	21-923
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5435	23	3-818	13-102	5507	36	23-507	22-426
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5438	9	17-029	13-576	5510	60	3-314	23-168
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5441	19	2-837	14-057	5513	56	17-966	23-888
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5611	21	13-002	7-910	5683	12	17-058	14-850
5612	17	19-587	7-980	5684	13	21-066	14-172
5613	9	10-686	7-268	5685	15	24-090	14-020
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5616	52	11-286	8-404	5688	17	1-130	15-048
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5618	14	15-920	8-071	5690	34	15-950	15-974
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5620	9	22-069	8-532	5692	14	17-712	15-121
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R.A. 3 <sup>h</sup> 44 <sup>m</sup>										Plate 827; 1916 Nov. 20.									
Provisional Constants.										A B C									
D E F										-02585 +00033 +1784									
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6452	83	25-948	21-052	6521	10	6-294	2-467	6593	8	7-710	8-510	6665	17	2-678	13-435	6737	10	12-110	18-370
6453	9	2-514	22-070	6522	13	7-252	2-957	6594*	63	7-990	8-328	6666	17	5-276	13-607	6738	19	13-321	18-551
6454	8	4-370	22-895	6523	14	9-614	2-392	6595	11	8-870	8-304	6667	24	8-317	13-490	6739	10	15-820	18-540
6455	13	8-628	22-292	6524*	58	9-854	2-402	6596	8	9-450	8-988	6668	11	9-960	13-046	6740	11	21-925	18-316
6456	9	12-646	22-612	6525	10	10-810	2-984	6597	15	10-710	8-320	6669	10	12-202	13-076	6741	13	22-053	18-378
6457	38	18-924	22-410	6526	14	14-388	2-004	6598	13	11-314	8-394	6670	9	14-452	13-794	6742	35	25-874	18-639
6458*	44	22-922	22-714	6527	17	15-477	2-049	6599	13	12-710	8-215	6671	19	16-340	13-090	6743	29	0-886	19-490
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6460	27	21-766	23-088	6529	23	19-814	2-548	6601	11	13-330	8-558	6673	38	18-032	13-484	6745	13	3-110	19-496
6461	8	25-080	23-839	6530	11	19-896	2-578	6602*	50	17-670	8-428	6674	17	20-036	13-440	6746	39	9-592	19-860
6462	8	25-464	23-901	6531	52	21-355	2-055	6603	9	18-862	8-736	6675	14	20-320	13-728	6747	27	11-202	19-756
6463	19	3-368	24-016	6532	10	0-335	3-509	6604	10	19-006	8-017	6676	13	0-720	14-688	6748	11	12-490	19-400
6464	13	7-012	24-644	6533	10	0-350	3-517	6605	13	19-100	8-754	6677	20	5-035	14-470	6749	40	16-928	19-041
6465	21	8-128	24-207	6534	37	0-840	3-984	6606	44	21-680	8-507	6678	16	5-650	14-856	6750	15	17-462	19-215
6466	8	11-229	24-875	6535	10	1-598	3-269	6607	14	24-749	8-686	6679	19	7-550	14-288	6751*	36	20-510	19-844
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6469*	78	17-692	24-734	6538	23	9-400	3-817	6610	12	2-297	9-740	6682*	49	18-544	14-992	6754	25	25-040	19-326
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6473	14	24-294	24-909	6542	16	16-424	3-250	6614	8	8-800	9-465	6686	11	24-194	14-470	6758	10	19-811	20-324
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6476	10	9-880	25-261	6545	15	0-630	4-380	6617	12	14-262	9-664	6689	10	3-240	15-540	6761	24	2-796	21-036
6477	17	20-291	25-728	6546	10	1-258	4-442	6618	14	15-560	9-483	6690	25	8-076	15-430	6762*	73	3-140	21-289
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				6585	23	12-580	7-758	6657	20	12-820	12-435	6729	16	0-254	18-265	6801	23	2-264	24-043
				6586	9	13-200	7-976	6658*	44	13-940	12-690	6730*	55	2-828	18-164	6802	25	7-880	24-954



6807	53	5:365	25:275	6891	12	10:884	4:012	6963	30	7:460	11:044	7035	24	7:951	17:474	7107	38	16:386	23:136
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				6910	29	6:114	6:968	6982	30	10:040	13:049	7054	12	20:240	18:384	7126	38	8:418	25:569
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				6913	10	14:032	6:820	6985	33	17:640	13:850	7057	8	25:326	18:710	7129	17	15:900	25:267
				6914	11	14:996	6:558	6986	22	20:250	13:740	7058	20	1:585	19:851	7130	8	16:712	25:686
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				6917*	66	23:624	6:998	6989	36	22:528	13:946	7061	34	9:250	19:580				
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				6919	9	7:358	7:510	6991	41	24:446	13:872	7063*	46	10:956	19:326				
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				6924	41	20:960	7:586	6996	19	10:670	14:070	7068	16	16:611	19:997				
				6925	9	0:368	8:318	6997	36	16:356	14:393	7069	10	19:570	19:566				
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				6952	18	23:134	10:064	7024	24	21:668	16:761	7096	19	8:400	22:778				
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R.A. 4<sup>h</sup> 0<sup>m</sup>

Plate 868; 1916 Nov. 29.

Provisional Constants.

A B C

-02562 +00359 +2612

D E F

-00354 -02594 +0317

Mag. = 16.9 - 1.05√d

R.A. 4<sup>h</sup> 8<sup>m</sup>

Plate 821; 1916 Nov. 19.

Provisional Constants.

A B C

-02556 +00206 +1544

D E F

-00201 -02588 -1263

Mag. = 17.0 - 1.05√d

No.	d	x	y
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7174	10	2:616	2:083	7240	38	17:392	8:014	7318	35	1:946	14:390	7390	19	23:268	20:604	7455	14	14:012	0:185
7175	20	2:730	2:793	7247	24	18:300	8:149	7319	20	6:426	14:303	7391*	52	2:278	21:328	7456	8	14:782	0:105
7176	10	4:030	2:604	7248	27	19:352	8:473	7320	22	8:938	14:686	7392*	54	9:949	21:045	7457	11	14:829	0:472
7177*	58	4:815	2:508	7249	34	21:729	8:776	7321	22	11:101	14:337	7393	37	17:950	21:697	7458	11	16:465	0:549
7178*	44	9:476	2:117	7250	11	23:328	8:958	7322	15	11:161	14:212	7394	38	19:049	21:130	7459	8	18:014	0:679
7179	34	10:550	2:320	7251	68	25:852	8:966	7323	17	11:278	14:844	7395	26	20:556	21:324	7460	8	21:151	0:312
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7182	38	18:071	2:075	7254*	09	4:681	9:814	7326	19	13:808	14:666	7398	19	7:694	22:484	7463	10	0:791	1:810
7183	25	18:086	2:557	7255	17	8:262	9:476	7327	38	10:611	14:500	7399	37	10:427	22:857	7464	10	1:310	1:535
7184	18	19:876	2:272	7256	30	11:286	9:371	7328	26	20:028	14:768	7400	16	12:227	22:236	7465	27	4:170	1:352
7185*	56	20:071	2:506	7257	30	11:518	9:868	7329	16	23:209	14:218	7401	19	12:513	22:284	7466	12	4:100	1:253
7186	23	22:364	2:947	7258	14	14:746	9:566	7330	18	25:610	14:636	7402	17	14:556	22:253	7467	10	6:104	1:615
7187	38	1:253	3:945	7259	30	15:314	9:388	7331*	76	2:710	15:025	7403	22	15:618	22:717	7468	13	8:784	1:755
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7189	30	5:805	3:189	7261*	46	17:603	9:657	7333	14	6:944	15:516	7405	25	17:134	22:094	7470*	80	13:400	1:456
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7194	30	17:077	3:229	7266	23	2:809	10:968	7338	16	20:632	15:357	7410	11	5:384	23:644	7475	12	6:514	2:791
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7197	22	18:650	3:539	7269	32	10:584	10:194	7341	21	10:300	16:700	7413	38	10:520	23:734	7478*	60	11:216	2:724
7198	34	18:862	3:804	7270	13	15:423	10:060	7342*	46	11:702	16:418	7414	24	12:885	23:498	7479	33	14:860	2:693
7199	18	18:918	3:393	7271	34	16:625	10:195	7343	44	12:824	16:513	7415*	52	13:742	23:080	7480	8	21:525	2:119
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7201	38	1:624	4:858	7273	12	25:810	10:818	7345*	56	16:496	16:126	7417	24	16:078	23:736	7482*	48	5:642	3:191
7202	48	4:296	4:924	7274	48	0:800	11:494	7346	19	21:038	16:032	7418	37	16:170	23:772	7483	23	6:797	3:384
7203	20	6:226	4:954	7275	14	2:197	11:145	7347*	54	21:568	16:084	7419	22	16:384	23:242	7484	14	9:178	3:581
7204	30	8:143	4:994	7276*	74	3:185	11:123	7348	10	21:880	16:337	7420	24	1:294	24:584	7485	37	10:724	3:248
7205	16	14:651	4:789	7277	32	4:501	11:664	7349	12	22:503	16:070	7421	17	1:576	24:724	7486	22	11:081	3:323
7206	36	18:014	4:872	7278	17	4:771	11:388	7350	20	3:373	17:818	7422	16	10:846	24:214	7487	17	14:580	3:701
7207	34	25:026	4:646	7279	10	8:391	11:650	7351	28	8:028	17:852	7423	26	11:400	24:268	7488*	44	15:542	3:406
7208	68	25:266	4:419	7280	16	11:558	11:144	7352	30	8:831	17:230	7424	20	12:824	24:467	7489*	40	17:624	3:931
7209*	28	2:266	5:396	7281	16	13:200	11:100	7353	16	10:838	17:090	7425	16	18:202	24:535	7490	24	22:193	3:410
7210	56	7:828	5:568	7282	16	14:120	11:783	7354	16	17:244	17:901	7426	18	3:361	25:000	7491	33	2:764	4:518
7211	10	11:660	5:312	7283	17	15:249	11:138	7355	21	17:376	17:084	7427	16	3:370	25:176	7492*	51	2:998	4:286
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7214	17	15:566	5:516	7286	18	19:932	11:200	7358	36	0:720	18:866	7430	37	17:386	25:900	7495	9	9:103	4:632
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7218	17	18:919	5:562	7290	14	24:918	11:518	7362	14	6:760	18:410	7434	37	18:222	25:554	7499	8	10:162	4:238
7219*	76	1:190	6:028	7291	10	25:994	11:739	7363	14	8:766	18:202	7435	50	19:194	25:643	7500	42	23:840	4:548
7220	21	3:922	6:729	7292*	50	2:340	12:648	7364	14	10:153	18:176	7436	34	21:271	25:193	7501	12	5:041	5:726
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7222	12	7:114	6:212	7294	27	4:369	12:180	7366	37	14:982	18:228					7503	8	5:988	5:934
7223	19	7:300	6:541	7295	40	4:578	12:386	7367	22	14:958	18:827					7504*	44	7:280	5:626
7224	34	9:316	6:784	7296	13	5:798	12:330	7368	24	16:734	18:670					7505	8	8:466	5:054
7225	16	13:175	6:378	7297*	48	7:912	12:996	7369	14	20:597	18:261					7506	8	11:046	5:195
7226	11	14:667	6:193	7298	25	11:066	12:768	7370	22	22:143	18:040					7507	11	13:050	5:779
7227	27	17:671	6:530	7299	16	14:809	12:846	7371	29	24:128	18:924					7508	8	14:524	5:462
7228	16	22:554	6:715	7300	30	14:930	12:726	7372	36	3:979	19:781					7509	10	17:674	5:969
7229	18	10:352	7:849	7301	24	19:060	12:536	7373	20	11:424	19:764					7510	9	17:964	5:800
7230*	80	11:444	7:049	7302	14	19:694	12:343	7374*	52	12:436	19:370					7511	9	22:227	5:020
7231	26	11:520	7:668	7303	14	19:848	12:382	7375	13	15:094	19:650					7512	31	24:592	5:949
7232	39	11:680	7:777	7304	37	20:656	12:617	7376	11	15:820	19:556					7513	8	0:320	6:614
7233	36	15:508	7:908	7305	36	23:448	12:642	7377	16	16:826	19:882					7514	8	2:805	6:697
7234	12	15:639	7:829	7306	40	0:164	13:888	7378	38	17:730	19:462					7515	11	12:153	6:376
7235	15	18:810	7:852	7307	13	0:330	13:532	7379*	64	22:471	19:448					7516	9	12:332	6:682
7236	29	19:814	7:350	7308	40	2:080	13:799	7380	36	0:358	20:977					7517	38	15:426	6:475
7237	28	22:054	7:214	7309	36	8:162	13:792	7381*	72	0:956	20:562					7518	33	16:234	6:322
7238	34	5:112	8:496	7310	26	9:640	13:367	7382	22	9:474	20:168					7519	21	18:332	6:054
7239	39	5:504	8:646	7311	19	10:028	13:827	7383	21	9:694	20:570					7520	25	24:995	6:388
7240	20	7:580	8:994	731															

7527*	53	3-636	8-830	7599	15	8-213	13-926	7671	9	1-195	20-585	R.A. 4 <sup>h</sup> 24 <sup>m</sup>				7806*	58	23-911	6-150
7528	24	7-735	8-434	7600*	15	8-887	13-459	7672	9	4-944	20-225	Plate 839 : 1916 Nov. 25.				7807	21	25-904	6-512
7529	17	8-218	8-196	7601	14	11-920	13-066	7673	41	7-174	20-016	Provisional Constants.				7808	21	1-602	7-101
7530	17	8-515	8-256	7602	36	13-400	13-550	7674	30	8-307	20-287	A B C				7809	25	2-593	7-274
7531	31	9-972	8-118	7603	12	15-580	13-355	7675	40	11-338	20-188	-0.2535 -0.0089 -1.115				7810	28	10-504	7-600
7532*	58	11-256	8-900	7604	8	16-145	13-658	7676	10	13-469	20-447	D E F				7811	33	12-840	7-910
7533	14	13-534	8-815	7605	9	16-855	13-866	7677	26	14-080	20-894	-0.0988 -0.2546 -0.2543				7812	12	13-100	7-334
7534	50	13-619	8-819	7606	31	17-394	13-556	7678	8	18-918	20-874	Mag. = 15.6 - 1.05√d				7813	12	16-030	7-792
7535	10	14-130	8-026	7607	23	18-945	13-522	7679	28	22-256	20-470	No. d x y				7814*	25	18-501	7-001
7536	10	14-314	8-375	7608	11	19-916	13-623	7680	11	5-334	21-454	7751 10 3-395 0-702				7815	24	19-158	7-184
7537	10	17-772	8-000	7609	8	20-345	13-303	7681	41	5-963	21-182	7752 8 7-966 0-808				7816	12	19-326	7-064
7538	29	19-724	8-985	7610	9	1-150	14-114	7682*	64	11-151	21-272	7753 16 12-006 0-098				7817	8	25-324	7-278
7539	11	22-804	8-250	7611	10	3-464	14-500	7683	8	11-401	21-804	7754 25 25-774 0-120				7818	10	0-450	8-367
7540	8	0-604	9-332	7612	8	5-036	14-151	7684	8	11-586	21-879	7755 16 6-658 1-499				7819	14	10-528	8-602
7541	12	1-681	9-159	7613	11	5-294	14-165	7685	9	15-512	21-551	7756 12 13-730 1-707				7820	20	13-094	8-600
7542	8	2-516	9-157	7614	14	5-854	14-442	7686	8	17-155	21-902	7757 10 10-480 1-386				7821	19	13-112	8-640
7543	42	8-485	9-844	7615	17	8-680	14-086	7687	36	17-925	21-406	7758 41 17-834 1-848				7822	19	24-650	8-108
7544	10	9-874	9-715	7616	14	17-104	14-426	7688	26	19-180	21-232	7759 56 19-361 1-770				7823	19	1-910	9-176
7545	8	11-444	9-386	7617*	40	18-636	14-043	7689	21	19-948	21-813	7760 17 7-234 2-273				7824	9	2-112	9-587
7546	8	11-746	9-584	7618	48	19-392	14-736	7690	10	20-325	21-473	7761 17 12-657 2-413				7825	10	3-803	9-156
7547	9	11-759	9-250	7619	10	21-102	14-810	7691*	44	23-100	21-274	7762 11 12-657 2-413				7826	12	6-130	9-108
7548	12	13-276	9-246	7620	12	23-502	14-012	7692	40	0-852	22-850	7763 21 21-617 2-081				7827	9	7-422	9-400
7549	41	15-580	9-364	7621	16	25-539	14-090	7693	45	6-932	22-085	7764 12 24-514 2-677				7828	10	8-842	9-620
7550	20	16-926	9-020	7622	19	4-360	15-548	7694	24	9-980	22-258	7765 23 5-126 3-120				7829	10	10-579	9-456
7551	9	17-939	9-447	7623	18	10-657	15-136	7695	8	12-710	22-704	7766 26 9-694 3-828				7830	46	23-080	9-164
7552	14	20-566	9-754	7624	26	16-025	15-929	7696	20	12-934	22-963	7767 8 10-580 3-118				7831	21	23-614	9-638
7553	20	20-815	9-336	7625	10	16-570	15-800	7697	8	13-039	22-924	7768 8 11-311 3-301				7832	10	23-876	9-301
7554	8	20-899	9-226	7626	9	16-570	15-774	7698	19	13-927	22-088	7769 14 14-018 3-862				7833	12	1-064	10-355
7555*	49	21-618	9-778	7627	12	22-756	15-990	7699	40	15-941	22-507	7770 18 14-976 3-866				7834	9	3-608	10-934
7556	20	24-248	9-084	7628	26	23-326	15-709	7700	18	16-076	22-430	7771 18 15-834 3-408				7835	10	4-526	10-165
7557	8	24-441	9-501	7629	8	23-970	15-354	7701	33	16-492	22-803	7772 16 17-014 3-470				7836	31	9-326	10-047
7558	8	24-638	9-985	7630	40	4-144	16-340	7702	22	17-133	22-757	7773 12 21-382 3-222				7837	20	10-304	10-831
7559	9	25-052	9-061	7631	29	6-512	16-238	7703	10	18-055	22-197	7774 21 3-104 4-653				7838	10	14-904	10-753
7560	12	4-016	10-900	7632	12	9-908	16-304	7704	28	20-439	22-600	7775 14 6-879 4-393				7839	8	15-862	10-840
7561	8	6-956	10-876	7633	21	11-566	16-381	7705	8	24-396	22-454	7776 14 6-879 4-393				7840	17	15-913	10-610
7562	13	7-432	10-427	7634	10	13-634	16-264	7706	8	5-210	23-741	7777 13 7-509 4-606				7841	23	17-772	10-524
7563	8	8-604	10-731	7635	8	13-656	16-270	7707	19	8-470	23-194	7778 10 8-609 4-010				7842	23	5-050	11-702
7564	30	8-930	10-150	7636	8	14-267	16-664	7708	8	8-783	23-274	7779 18 10-134 4-538				7843	9	7-068	11-773
7565	47	10-666	10-096	7637	25	22-754	16-108	7709	20	10-870	23-348	7780 9 13-130 4-539				7844	10	10-978	11-556
7566	16	13-202	10-878	7638	22	22-862	16-076	7710	8	11-653	23-613	7781 11 17-346 4-400				7845	14	11-884	11-757
7567	8	13-976	10-430	7639	10	0-039	17-942	7711	16	12-863	23-625	7782 10 20-300 4-816				7846	22	22-796	11-772
7568	16	17-380	10-527	7640	8	3-168	17-446	7712	17	15-800	23-754	7783 10 24-607 4-831				7847	8	23-838	11-666
7569	11	20-819	10-089	7641	9	7-242	17-122	7713	8	16-021	23-860	7784 11 25-408 4-704				7848	48	24-060	11-686
7570	12	23-383	10-246	7642	12	14-794	17-644	7714	42	16-249	23-924	7785 47 4-558 5-144				7849	9	24-134	11-284
7571	9	25-316	10-863	7643	30	17-136	17-127	7715	8	19-838	23-104	7786 11 4-597 5-318				7850	9	20-938	12-410
7572	10	0-733	11-400	7644	8	19-575	17-820	7716	8	22-780	23-454	7787 19 7-330 5-144				7851	12	1-906	12-907
7573	8	2-740	11-392	7645	18	20-396	17-880	7717	10	25-359	23-025	7788 52 10-134 4-538				7852	26	10-445	12-738
7574	10	3-815	11-598	7646	8	21-514	17-542	7718	8	1-437	24-134	7789 20 13-502 5-163				7853	25	10-708	12-528
7575	12	4-806	11-384	7647	30	21-600	17-329	7719	20	9-366	24-476	7790 30 16-015 5-771				7854	35	9-180	13-094
7576	12	6-275	11-034	7648	13	2-035	18-810	7720	12	11-872	24-075	7791 30 22-260 5-514				7855	8	12-718	12-464
7577	8	6-476	11-883	7649	8	6-400	18-108	7721	8	12-562	24-355	7792 21 2-199 6-036				7856	20	10-862	13-702
7578	8	6-811	11-552	7650	33	6-086	18-454	7722	9	16-266	24-413	7793 20 2-609 6-409				7857	22	13-582	12-388
7579*	60	8-188	11-866	7651	8	11-052	18-786	7723*	54	17-138	24-031	7794 32 5-734 6-001				7858	46	11-549	13-064
7580	11	9-068	11-682	7652	20	16-032	18-355	7724	34	17-272	24-662	7795 27 9-882 6-588				7859	8	13-104	13-054
7581	21	10-672	11-593	7653	21	19-256	18-344	7725	8	18-823	24-430	7796 8 10-402 6-939				7860	8	13-309	13-590
7582	15	12-541	11-957	7654	9	19-662	18-003	7726	9	21-066	24-436	7797 27 11-430 6-056				7861	20	15-468	13-790
7583	8	14-057	11-950	7655	13	23-848	18-643	7727	8	22-862	24-225	7798 27 13-044 6-277				7862	20	7-118	13-212
7584	32	14-200	11-609	7656	39	23-974	18-951	7728	8	23-136	24-346	7799 30 16-015 5-771				7863	35	9-180	13-094
7585	34	1-276	12-534	7657	54	0-378	19-350	7729	8	3-303	25-482	7800 8 14-137 6-708				7864	23	9-576	13-502
7586	13	5-445	12-050	7658	24	7-648	19-242	7730	35	5-192	25-760	7801 12 14-066 6-870				7865	20	10-862	13-728
7587	28	10-004	12-936	7659	22	8-166	19-126	7731	33	11-906	25-338	7802 8 18-045 6-194				7866	20	10-541	13-502
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8288	37	24-742	21-146					8418	8	15-294	5-308	8490	30	2-174	10-771	8562	10	9-115	15-940
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8293*	45	6-062	22-983					8423*	76	20-644	5-739	8495	36	13-959	10-700	8567	12	3-454	16-050
8294	29	7-770	22-900					8424	20	24-616	5-393	8496	13	15-052	10-866	8568	32	5-457	16-066
8295	33	14-401	22-735					8425	8	24-798	5-021	8497	37	15-600	10-576	8569	12	6-088	16-112
8296	9	14-836	22-280					8426	22	25-290	5-030	8498	20	0-111	11-317	8570	8	6-088	16-112
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8952	8	6-300	16-707	9024	8	7-260	23-440	9108	12	13-852	0-418	9180	23	11-363	5-077	9252	12	25-680	9-839
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8962*	54	1-525	17-660	9034	13	23-194	23-621	9118	11	3-966	1-671	9190	10	24-674	5-655	9262	11	24-210	10-155
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8974	22	12-834	18-326	9046*	47	14-685	24-097	9130	10	23-200	1-952	9202	9	12-578	6-384	9274	20	17-066	11-685
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8982	43	3-827	19-068	9054	11	4-844	25-026	9138	26	12-774	2-417	9210	10	22-092	6-158	9282	11	3-190	12-503
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8997	42	6-904	21-320					9153	20	25-504	3-918	9225	8	23-800	7-884	9297	20	23-721	12-112
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8999	39	10-815	21-080					9155	40	0-509	4-306	9227	12	1-735	8-537	9299	22	0-564	13-229
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9002	24	18-377	21-734					9158	10	6-204	4-602	9230	21	7-874	8-036	9302	10	5-245	13-375
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9004*	35	21-649	21-042					9160	8	7-442	4-363	9232*	60	15-411	8-925	9304	10	16-658	13-794
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9016	24	13-544	22-340					9172	8	23-576	4-552	9244	12	12-097	9-196				

9322	18	13.700	14.686	9394	10	25.470	18.458	9466	36	6.150	23.980	9555	9	10.642	0.800	9627	9	10.962	6.667
9323	11	16.832	14.074	9395	9	1.720	19.696	9467	10	6.294	23.670	9556	8	16.630	0.484	9628	13	20.768	6.783
9324	11	18.237	14.060	9396	8	3.406	19.351	9468	20	6.915	23.228	9557	13	18.174	0.435	9629	21	23.128	6.676
9325	9	18.856	14.857	9397*	52	5.782	19.792	9469	8	7.266	23.720	9558	10	22.100	0.694	9630	10	24.366	6.208
9326	13	20.531	14.354	9398	12	6.829	19.758	9470	9	8.906	23.339	9559	11	22.467	0.534	9631	8	2.458	7.554
9327	10	23.555	14.026	9399	12	9.797	19.753	9471	12	11.720	23.756	9560	8	22.486	0.285	9632	10	5.740	7.193
9328	12	24.028	14.440	9400	22	9.845	19.193	9472*	43	11.766	23.804	9561	15	22.738	0.224	9633*	34	6.268	7.574
9329	15	24.339	14.416	9401	10	12.582	19.834	9473	9	11.982	23.735	9562	9	10.318	1.640	9634	12	8.632	7.044
9330	12	24.435	14.226	9402	11	16.528	19.355	9474	8	14.817	23.142	9563	12	10.755	1.426	9635	8	9.516	7.300
9331	13	24.763	14.655	9403	14	16.550	19.186	9475	8	15.840	23.756	9564	11	17.131	1.535	9636	8	12.028	7.410
9332	11	24.01	15.330	9404*	38	18.867	19.605	9476	16	16.378	23.300	9565	8	6.500	2.868	9637	8	12.824	7.222
9333*	42	3.012	15.626	9405	10	19.354	19.429	9477	17	19.548	23.327	9566	10	14.683	2.787	9638	15	16.188	7.330
9334	8	5.782	15.054	9406	8	20.723	19.444	9478	26	19.670	23.152	9567	13	15.456	2.713	9639	8	17.312	7.664
9335	9	8.104	15.815	9407	15	21.300	19.671	9479	9	21.721	23.163	9568	24	17.240	2.682	9640	10	22.908	7.655
9336*	40	8.503	15.876	9408*	40	4.105	20.672	9480	8	3.204	24.326	9569*	43	17.267	2.541	9641	8	23.099	7.976
9337	10	10.441	15.320	9409	10	5.804	20.466	9481	8	3.802	24.784	9570*	28	20.902	2.761	9642*	51	24.144	7.496
9338	20	10.880	15.418	9410	40	6.008	20.185	9482	11	7.066	24.984	9571	10	23.652	2.752	9643*	50	24.296	7.520
9339	12	15.977	15.075	9411	18	6.065	20.738	9483	8	7.024	24.394	9572	8	0.181	3.577	9644	8	0.279	8.890
9340	21	16.514	15.535	9412	10	6.866	20.514	9484*	42	8.768	24.084	9573	8	2.512	3.445	9645	10	0.600	8.560
9341	9	18.306	15.050	9413	10	10.224	20.430	9485	19	11.773	24.898	9574	10	2.807	3.195	9646	8	3.055	8.837
9342	9	18.564	15.602	9414	8	12.580	20.550	9486	40	11.092	24.148	9575	16	3.772	3.582	9647	12	4.936	8.768
9343	20	21.585	15.589	9415	14	12.918	20.480	9487	20	12.421	24.654	9576	32	5.726	3.707	9648	14	6.140	8.242
9344	11	22.034	15.845	9416	13	14.084	20.145	9488	20	12.652	24.266	9577	11	5.944	3.722	9649	9	8.122	8.406
9345	10	22.875	15.202	9417	20	15.596	20.366	9489	20	12.914	24.244	9578	10	7.223	3.624	9650	13	8.372	8.584
9346	8	23.676	15.862	9418	23	16.544	20.961	9490	9	13.112	24.456	9579	11	10.330	3.874	9651	9	13.322	8.583
9347	18	1.682	16.640	9419	15	16.800	20.934	9491	25	16.114	24.606	9580	9	18.092	3.622	9652	10	13.550	8.586
9348	10	2.364	16.074	9420	11	16.825	20.494	9492	8	17.738	24.196	9581	16	22.094	3.543	9653	13	15.588	8.338
9349	8	3.324	16.244	9421	8	18.625	20.486	9493	11	17.794	24.273	9582	14	25.108	3.123	9654	8	17.397	8.564
9350	11	4.566	16.179	9422	9	20.879	20.344	9494	8	18.617	24.394	9583	8	0.966	4.732	9655	16	20.173	8.732
9351	9	4.934	16.314	9423	28	22.266	20.014	9495	9	22.484	24.084	9584	17	1.329	4.394	9656	9	24.688	8.072
9352	8	8.726	16.224	9424	10	23.218	20.755	9496*	51	24.408	24.196	9585	9	2.932	4.662	9657	10	1.362	9.666
9353	40	8.898	16.006	9425	8	23.630	20.460	9497	9	25.274	24.714	9586	14	3.028	4.122	9658	8	1.506	9.816
9354	8	9.600	16.505	9426	18	25.306	20.116	9498	12	25.530	24.916	9587	9	3.730	4.532	9659	12	1.700	9.346
9355	24	10.451	16.572	9427	8	0.296	21.256	9499	10	0.266	25.876	9588	12	4.200	4.490	9660	9	6.706	9.906
9356	10	11.153	16.116	9428	10	1.256	21.755	9500	12	1.302	25.954	9589	13	8.628	4.549	9661	15	7.656	9.636
9357	18	14.080	16.486	9429	13	3.274	21.437	9501	11	4.124	25.892	9590	32	8.952	4.700	9662	9	9.078	9.600
9358	12	17.164	16.648	9430	17	3.378	21.437	9502	9	4.577	25.209	9591	8	9.884	4.147	9663	8	9.804	9.852
9359	8	19.016	16.635	9431	11	3.936	21.368	9503	10	6.165	25.766	9592	10	11.188	4.858	9664	8	12.592	9.206
9360	15	20.409	16.888	9432	16	4.980	21.433	9504	24	8.404	25.636	9593	8	12.828	4.413	9665	10	13.940	9.326
9361	9	21.236	16.514	9433	9	6.852	21.696	9505	10	9.139	25.424	9594*	36	15.302	4.394	9666	9	15.946	9.660
9362*	45	21.636	16.402	9434	21	7.320	21.271	9506	40	9.412	25.553	9595	9	16.690	4.092	9667	27	20.094	9.097
9363	10	22.310	16.542	9435	15	8.914	21.514	9507	13	9.702	25.524	9596	8	17.664	4.404	9668	8	20.315	9.486
9364	8	23.676	16.366	9436*	46	11.265	21.857	9508	11	12.035	25.134	9597	8	17.750	4.392	9669	25	21.396	9.841
9365	14	2.885	17.466	9437	20	14.629	21.146	9509	41	13.465	25.584	9598	30	18.236	4.966	9670	8	25.694	9.000
9366	8	3.022	17.362	9438	11	16.350	21.546	9510	10	18.176	25.672	9599	20	25.134	4.265	9671	10	1.792	10.372
9367	9	4.314	17.918	9439	32	18.318	21.013	9511	12	18.637	25.638	9600	11	0.054	5.612	9672	12	1.928	10.924
9368*	45	5.247	17.594	9440	13	19.377	21.606	9512	10	19.388	25.471	9601	9	2.215	5.872	9673*	34	2.700	10.312
9369	12	5.474	17.815	9441	10	20.884	21.196	9513	11	22.156	25.621	9602	10	3.241	5.002	9674	11	3.274	10.042
9370	15	5.920	17.766	9442	8	22.462	21.152	9514	11	22.948	25.546	9603	8	3.746	5.509	9675	9	6.558	10.384
9371	13	6.924	17.183	9443	12	23.488	21.844					9604	11	5.518	5.728	9676	10	8.088	10.008
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9373	14	8.806	17.607	9445	24	25.688	21.062					9606	11	7.463	5.359	9678	8	18.819	10.202
9374	8	10.071	17.054	9446	13	1.194	22.894					9607	9	8.580	5.441	9679	24	19.706	10.678
9375	8	11.128	17.234	9447	10	5.275	22.584					9608*	62	9.179	5.856	9680	13	21.180	10.122
9376	13	12.268	17.830	9448	22	6.618	22.464					9609*	50	10.746	5.726	9681	23	22.732	10.658
9377	12	17.075	17.662	9449	8	7.196	22.680					9610*	46	11.189	5.096	9682	8	4.994	11.905
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9379	9	1.504	18.450	9451	30	12.036	22.356					9612	10	14.791	5.322	9684	9	6.403	11.008
9380*	45	3.686	18.944	9452	9	12.266	22.198					9613	13	18.242	5.111	9685	20	7.298	11.444
9381	14	7.849	18.480	9453	9	12.909	22.758					9614	11	22.103	5.466	9686	9	9.239	11.612
9382	18	7.996	18.401	9454	10	14.572	22.196					9615	12	22.662	5.191	9687	8	9.260	11.931
9383	11	10.119	18.088	9455	16	17.326	22.779					9616	9	23.102	5.690	9688	16	9.936	11.567
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9385	13	14.221	18.962	9457	18	19.665	22.940					9618	13	23.878	5.172	9690	21	14.398	11.570
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9713	14	2-917	13-294	9785	14	14-974	18-602	9857	14	16-237	24-828	9934	23	5-685	2-318	10006	8	15-884	6-588
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9721	13	17-220	13-104	9793	10	20-894	18-368	9865	8	13-252	25-500	9942	25	17-326	2-408	10014	21	0-681	7-016
9722	8	17-650	13-219	9794	34	22-414	18-920	9866	8	15-388	25-272	9943	30	17-586	2-909	10015	16	1-472	7-028
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9725	10	1-178	14-250	9797	10	2-078	19-019	9869	33	22-145	25-756	9946	11	22-641	2-449	10018	21	1-972	7-073
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9729	11	2-392	14-868	9801	17	16-380	19-741					9950*	74	4-767	3-346	10022	12	14-358	7-724
9730	8	5-184	14-234	9802	8	18-210	19-228					9951	14	5-448	3-419	10023	42	14-774	7-236
9731	9	6-212	14-250	9803	13	18-888	19-449					9952	10	6-855	3-305	10024	24	16-492	7-804
9732	11	6-296	14-832	9804	18	18-985	19-483					9953	28	9-717	3-498	10025	24	16-586	7-266
9733	8	10-247	14-535	9805	8	19-483	19-088					9954*	112	13-880	3-634	10026	33	17-288	7-879
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9738	8	18-132	14-614	9810	24	9-843	20-066					9959	25	20-813	3-156	10031	8	23-212	7-484
9739	10	22-810	14-019	9811	26	11-664	20-601					9960	8	24-334	3-065	10032	41	24-914	7-804
9740	11	24-812	14-360	9812	13	14-153	20-285					9961	41	2-874	4-291	10033	12	2-459	8-016
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9742*	44	13-158	15-434	9814	8	18-939	20-202					9963	44	7-474	4-664	10035	10	6-278	8-452
9743	18	13-204	15-667	9815	24	19-665	20-235					9964	34	7-642	4-366	10036	43	7-200	8-600
9744	15	14-378	15-417	9816	22	19-944	20-790					9965	40	7-876	4-617	10037	8	7-368	8-174
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9747	29	18-488	15-809	9819	17	3-382	21-265					9968	22	10-159	4-302	10040	22	11-106	8-486
9748	8	19-716	15-761	9820	23	3-952	21-440					9969	39	11-450	4-031	10041	11	14-866	8-741
9749	20	20-098	15-327	9821	9	7-464	21-950					9970	37	13-168	4-240	10042	21	15-036	8-748
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9751	29	22-382	15-624	9823	31	11-724	21-057					9972	9	22-035	4-645	10044	24	17-167	8-474
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10105*	42	3-929	13-384	10177	13	4-707	17-521	10249	30	12-878	21-256					10406	14	2-199	4-124
10106	9	4-144	13-872	10178	12	6-806	17-252	10250	28	14-386	21-900					10407	21	4-981	4-032
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12291	8	25-274	17-266	12363	8	6-772	25-095	12449*	28	22-542	4-102	12521*	30	9-110	10-244	12593	12	4-054	16-944
12292	10	3-850	18-525	12364	8	15-206	25-838	12450*	33	22-646	4-614	12522	10	9-148	10-678	12594*	48	4-778	16-053
12293	11	8-732	18-482	12365*	31	19-712	25-248	12451*	29	24-302	4-600	12523	8	17-159	10-016	12595	15	5-984	16-664
12294	8	10-243	18-418					12452	10	1-515	5-466	12524	9	19-256	10-038	12596	18	7-366	16-550
12295	8	15-428	18-578					12453	14	2-852	5-264	12525*	44	20-873	10-282	12597	8	8-242	16-631
12296	14	15-579	18-776					12454	10	6-925	5-671	12526	9	22-565	10-186	12598	14	8-866	16-872
12297	8	15-950	18-466					12455	15	8-380	5-483	12527	8	23-259	10-501	12599	12	13-071	16-500
12298	12	21-833	18-928					12456	8	9-220	5-835	12528	13	23-872	10-886	12600	8	15-970	16-450
12299	12	21-928	18-193					12457	19	11-906	5-314	12529	24	24-004	10-808	12601*	25	16-499	16-596
12300*	27	22-724	18-460					12458	8	12-178	5-244	12530	8	2-479	11-532	12602	22	20-670	16-782
12301	8	23-314	18-628					12459	8	15-578	5-426	12531	8	3-522	11-068	12603	8	21-281	16-944
12302	13	7-227	19-184					12460	8	16-848	5-044	12532	8	7-408	11-716	12604	10	21-727	16-954
12303	20	14-230	19-649					12461	13	20-439	5-141	12533	9	8-994	11-696	12605	15	25-028	16-582
12304	20	17-608	19-380					12462	10	21-570	5-792	12534	8	11-282	11-378	12606	10	25-850	16-650
12305	8	17-823	19-901					12463	8	23-072	5-680	12535	8	12-663	11-690	12607	14	3-004	17-496
12306	8	20-210	19-908					12464	8	23-584	5-459	12536	8	13-436	11-116	12608	8	5-832	17-193
12307	9	22-225	19-284					12465	31	24-631	5-024	12537	16	19-952	11-581	12609	23	7-461	17-711
12308	8	24-449	19-794					12466	19	1-168	6-496	12538	29	22-835	11-210	12610*	48	7-950	17-314
12309	9	24-700	19-461					12467*	49	3-806	6-839	12539	10	23-778	11-790	12611	25	12-724	17-387
12310	9	24-808	19-779					12468	15	8-180	6-686	12540	8	3-230	12-960	12612	25	13-595	17-813
12311	11	24-810	19-776					12469	9	10-680	6-083	12541	10	7-722	12-353	12613	9	14-825	17-128
12312	8	4-794	20-469					12470	13	11-207	6-386	12542*	70	13-915	12-005	12614	23	14-968	17-018
12313	8	10-442	20-247					12471	14	15-186	6-154	12543	8	18-387	12-402	126			



12623	12	25°346	17°068	12695	10	16°810	23°050	12768	8	5°626	1°515	12840	10	4°908	5°420	12912	38	8°310	8°354
12624	40	0°554	18°610	12696	8	16°886	23°275	12769	23	5°792	1°118	12841	19	5°724	5°874	12913	14	10°440	8°436
12625	34	5°757	18°752	12697	8	17°237	23°282	12770	8	12°458	1°630	12842	40	5°946	5°552	12914	23	10°848	8°695
12626	12	6°084	18°570	12698	38	17°674	23°010	12771	24	14°712	1°062	12843	8	6°074	5°466	12915	9	11°844	8°906
12627	8	8°230	18°369	12699	15	20°880	23°349	12772	20	17°372	1°522	12844	10	8°102	5°754	12916	22	15°050	8°300
12628	12	8°246	18°408	12700	10	22°602	23°981	12773	32	17°552	1°294	12845	12	8°616	5°418	12917	18	15°977	8°002
12629	8	16°316	18°850	12701	19	24°431	23°024	12774	21	19°500	1°950	12846	46	10°592	5°876	12918	8	19°439	8°826
12630	13	16°828	18°261	12702	10	3°174	24°344	12775	8	20°114	1°954	12847	8	11°950	5°818	12919	8	19°978	8°554
12631	8	17°576	18°281	12703	18	4°527	24°796	12776	11	20°280	1°503	12848	9	12°195	5°386	12920	15	2°172	9°256
12632	23	21°770	18°740	12704	22	10°100	24°388	12777	17	20°550	1°354	12849	8	12°716	5°230	12921	17	2°306	9°918
12633	11	23°865	18°320	12705	23	10°992	24°836	12778	8	22°590	1°700	12850	21	13°514	5°306	12922	18	3°038	9°664
12634	10	24°854	18°390	12706	40	12°892	24°368	12779	27	22°804	1°856	12851	8	14°841	5°576	12923	22	4°884	9°424
12635	19	25°402	18°954	12707	8	14°846	24°596	12780	9	2°168	2°026	12852	8	14°954	5°500	12924	20	5°088	9°744
12636	10	25°436	18°764	12708	8	14°849	24°983	12781	10	3°051	2°391	12853	16	15°732	5°520	12925	16	5°100	9°980
12637	9	0°068	19°435	12709	10	15°711	24°700	12782	9	3°718	2°066	12854	47	18°334	5°953	12926	12	7°110	9°816
12638	8	3°304	19°151	12710	8	21°016	24°185	12783	13	6°369	2°300	12855	16	18°608	5°884	12927	22	8°696	9°625
12639	10	2°548	19°580	12711	9	24°090	24°288	12784	15	8°100	2°013	12856	8	19°312	5°811	12928	12	12°884	9°089
12640	9	2°644	19°900	12712	13	25°159	24°450	12785	20	9°039	2°827	12857	8	19°603	5°917	12929	100	13°807	9°594
12641	10	2°659	19°900	12713	14	0°979	25°007	12786	30	12°732	2°779	12858	13	20°078	5°516	12930	20	13°940	9°734
12642	8	4°149	19°746	12714	8	4°036	25°494	12787	11	14°836	2°630	12859	9	22°189	5°500	12931	19	16°108	9°514
12643	8	6°680	19°607	12715	10	10°538	25°214	12788	8	16°276	2°417	12860	8	22°500	5°262	12932	13	17°265	9°190
12644	47	7°348	19°292	12716	12	11°208	25°616	12789	12	17°904	2°680	12861	10	23°289	5°218	12933	26	17°650	9°728
12645	10	7°977	19°959	12717	10	12°350	25°582	12790	16	18°775	2°086	12862	36	24°982	5°592	12934	21	18°076	9°702
12646	34	11°371	19°030	12718	8	12°856	25°228	12791	8	23°181	2°536	12863	10	25°844	5°861	12935	32	19°472	9°010
12647	21	16°400	19°978	12719	20	14°488	25°740	12792	15	23°326	2°615	12864	8	0°162	6°583	12936	9	20°534	9°582
12648	14	16°427	19°408	12720	14	16°800	25°498	12793	24	24°421	2°362	12865	12	0°206	6°316	12937	10	20°936	9°690
12649	8	16°534	19°459	12721	38	20°390	25°294	12794	24	1°076	3°508	12866	9	0°294	6°850	12938	20	22°078	9°517
12650	15	17°536	19°410	12722	9	21°920	25°442	12795	23	1°691	3°556	12867	9	1°040	6°862	12939	15	22°335	9°804
12651	8	17°746	19°108	12723	8	22°261	25°229	12796	11	2°056	3°639	12868	11	4°705	6°938	12940	17	23°354	9°265
12652	8	20°749	19°799	12724	9	22°823	25°397	12797	8	2°960	3°982	12869	44	4°813	6°004	12941	8	25°880	9°180
12653	31	23°998	19°186	12725	37	24°496	25°302	12798	23	3°487	3°560	12870	9	5°114	6°936	12942	10	0°032	10°356
12654	23	1°059	20°256					12799	16	3°626	3°506	12871	8	6°900	6°529	12943	10	0°960	10°033
12655	24	2°865	20°776					12800	33	7°158	3°150	12872	11	7°500	6°764	12944	28	1°480	10°964
12656	8	3°180	20°100					12801	8	8°002	3°318	12873	12	8°650	6°242	12945	11	3°323	10°500
12657	11	3°698	20°298					12802	14	8°260	3°103	12874	14	8°708	6°117	12946	8	4°844	10°262
12658	8	8°824	20°088					12803	11	9°232	3°847	12875	12	9°727	6°836	12947	8	4°886	10°836
12659	8	8°866	20°055					12804	8	9°898	3°402	12876	15	10°294	6°732	12948	8	4°972	10°155
12660	9	9°874	20°827					12805	36	13°850	3°416	12877	23	14°343	6°360	12949	12	5°730	10°779
12661	20	10°693	20°360					12806	22	14°060	3°000	12878	12	16°974	6°324	12950	15	9°714	10°740
12662	18	11°904	20°221					12807	11	14°904	3°546	12879	58	18°033	6°190	12951	8	9°994	10°914
12663	29	12°385	20°578					12808	12	16°444	3°698	12880	41	18°354	6°222	12952	9	10°573	10°532
12664	8	13°166	20°454					12809	8	17°394	3°566	12881	24	20°875	6°400	12953	8	13°676	10°980
12665	26	24°674	20°446					12810	37	0°054	4°788	12882	11	21°264	6°461	12954	27	15°072	10°076
12666	10	14°690	20°764					12811	40	1°710	4°754	12883	15	23°025	6°448	12955	13	15°316	10°414
12667	26	17°736	20°267					12812	65	3°904	4°178	12884	20	24°086	6°115	12956	41	18°294	10°294
12668	8	18°113	20°471					12813	8	4°414	4°969	12885	40	24°322	6°467	12957	8	18°927	10°266
12669	13	22°188	20°863					12814	14	5°266	4°188	12886	9	25°529	6°276	12958	15	19°102	10°742
12670	10	3°678	21°786					12815	8	5°464	4°406	12887	27	25°256	7°643	12959	13	20°985	10°733
12671	13	11°454	21°224					12816	13	8°773	4°613	12888	21	5°066	7°286	12960	29	22°616	10°104
12672	11	11°489	21°156					12817	25	9°572	4°182	12889	13	6°683	7°339	12961	11	24°778	10°150
12673	13	15°771	21°542					12818	10	9°624	4°986	12890	39	7°152	7°260	12962	12	24°812	10°084
12674	8	15°950	21°516					12819	21	10°170	4°470	12891	8	8°110	7°614	12963	14	24°858	10°612
12675	11	16°234	21°318					12820	8	11°020	4°110	12892	40	9°830	7°436	12964	36	0°310	11°381
12676	12	21°420	21°400					12821	14	11°115	4°900	12893	22	9°846	7°720	12965	10	1°260	11°948
12677	30	25°984	21°237					12822	9	12°626	4°180	12894	16	11°540	7°916	12966	17	1°345	11°046
12678	8	2°314	22°325					12823	8	14°110	4°260	12895	12	11°842	7°151	12967	15	5°316	11°390
12679	8	3°157	22°661					12824	8	15°369	4°704	12896	21	12°840	7°994	12968	10	5°431	11°879
12680	8	4°216	22°409					12825	17	15°392	4°664	12897	11	13°130	7°032	12969	9	6°230	11°716
12681	16	10°334	22°459					12826	11	15°757	4°360	12898	22	13°925	7°414	12970	31	14°141	11°976
12682	11	12°832	22°360					12827	12	16°038	4°265	12899	8	14°139	7°435	12971	12	15°503	11°554
12683	10	21°738	22°164					12828	8	16°573	4°222	12900	19	15°216	7°254	12972	8	15°772	11°820
12684	11	22°028	22°932					12829	15	17°992	4°786	12901	11	16°560	7°922	12973	19	16°012	11°073
12685	8	1°395	23°116					12830	15	20°210	4°647	12902	12	17°453	7°989	12974	13	16°810	11°866
12686	11	4°550	13°300					12831	8	20°436	4°624	12903	8	17°474	7°128	12975	22	18°273	11°099
12687	11	5°849	23°505					12832	8	25°308	4°210	12904	8	18°965	7°854	12976	10	18°533	11°489
12688	10	6°236	23°853					12833	12	1°001	5°620	12905	22	19°352	7°418	12977	21	19°226	11°930
12689	14	6°410	23°235					12834	29	2°044	5°178	12906	38	22°226	7°05				

12984	18	1°07'	12°17'	13056	9	11°45'	15°52'	13128	11	21°32'	18°91'	13200	13	6°27'	22°96'	13272	33	19°32'	25°82'
12985	12	3°14'	12°30'	13057	8	13°76'	15°10'	13129	30	24°11'	18°75'	13201	11	7°63'	22°61'	13273	8	20°07'	25°58'
12986	30	3°16'	12°27'	13058	8	13°44'	15°27'	13130	20	24°54'	18°54'	13202	19	7°81'	22°57'	13274	12	20°52'	25°13'
12987	12	5°86'	12°11'	13059	10	15°22'	15°45'	13131	28	24°59'	18°108'	13203	12	8°47'	22°72'	13275	8	24°06'	25°59'
12988	8	7°54'	12°78'	13060	24	16°719'	15°154'	13132	8	25°02'	18°944'	13204	12	9°800'	22°912'	13276	19	24°255'	25°770'
12989	17	9°862'	12°046'	13061	14	18°054'	15°549'	13133	31	1°556'	19°344'	13205	14	10°129'	22°650'	13277	13	24°985'	25°316'
12990	25	12°918'	12°470'	13062	8	18°426'	15°553'	13134	23	2°958'	19°098'	13206	9	10°314'	22°566'				
12991	10	13°930'	12°836'	13063	37	19°334'	15°223'	13135	9	4°379'	19°234'	13207	8	10°765'	22°727'				
12992	8	14°264'	12°332'	13064	8	20°793'	15°540'	13136	20	5°075'	19°622'	13208	13	11°054'	22°686'				
12993	8	15°105'	12°348'	13065	28	21°110'	15°825'	13137	9	5°158'	19°152'	13209	12	15°054'	22°848'				
12994	12	17°680'	12°478'	13066	8	23°267'	15°119'	13138	39	11°680'	19°407'	13210	27	15°082'	22°451'				
12995	8	18°358'	12°257'	13067	8	23°482'	15°765'	13139	17	12°272'	19°290'	13211	20	16°212'	22°196'				
12996	16	21°636'	12°060'	13068	17	25°086'	15°296'	13140	10	14°503'	19°855'	13212	27	17°184'	22°937'				
12997	10	21°700'	12°400'	13069	17	25°561'	16°730'	13141	8	15°339'	19°160'	13213	12	17°769'	22°444'				
12998	36	23°100'	12°014'	13070	14	3°384'	16°781'	13142	8	15°363'	19°950'	13214	23	18°908'	22°700'				
12999	8	3°326'	13°989'	13071	9	4°577'	16°784'	13143	18	15°986'	19°384'	13215	19	19°192'	22°442'				
13000	24	2°608'	13°090'	13072	9	5°303'	16°528'	13144	8	19°509'	19°338'	13216	20	21°422'	22°320'				
13001	8	4°522'	13°522'	13073	10	6°160'	16°680'	13145	21	19°943'	19°300'	13217	8	21°825'	22°320'				
13002	11	5°424'	13°380'	13074	10	8°386'	16°018'	13146	12	20°994'	19°064'	13218	21	22°466'	22°025'				
13003	10	6°498'	13°180'	13075	8	9°248'	16°746'	13147	41	21°484'	19°437'	13219	8	22°560'	22°216'				
13004	10	6°736'	13°960'	13076	23	9°322'	16°906'	13148	8	21°934'	19°962'	13220	32	25°872'	22°244'				
13005	8	6°925'	13°936'	13077	20	10°214'	16°990'	13149	8	22°600'	19°313'	13221	25	2°031'	23°175'				
13006	12	8°444'	13°387'	13078	12	12°608'	16°387'	13150	26	23°388'	19°726'	13222	8	3°637'	23°546'				
13007	8	9°560'	13°211'	13079	11	13°353'	16°646'	13151	60	25°444'	19°443'	13223	8	4°946'	23°023'				
13008	8	9°835'	13°040'	13080	8	13°618'	16°544'	13152	9	2°265'	20°596'	13224	21	5°300'	23°381'				
13009	17	9°910'	13°225'	13081	40	13°686'	16°030'	13153	13	2°968'	20°137'	13225	32	6°675'	23°245'				
13010	21	10°287'	13°090'	13082	8	15°895'	16°327'	13154	24	4°286'	20°224'	13226	17	6°762'	23°268'				
13011	9	10°513'	13°746'	13083	8	16°652'	16°210'	13155	20	4°569'	20°152'	13227	8	7°447'	23°406'				
13012	21	10°990'	13°751'	13084	9	20°627'	16°194'	13156	17	5°600'	20°664'	13228	10	8°148'	23°266'				
13013	8	12°388'	13°001'	13085	38	21°323'	16°582'	13157	8	7°506'	20°994'	13229	9	9°210'	23°060'				
13014	12	13°910'	13°180'	13086	24	24°044'	16°216'	13158	20	7°888'	20°832'	13230	21	10°432'	23°150'				
13015	8	14°558'	13°866'	13087	15	24°340'	16°548'	13159	11	8°074'	20°090'	13231	17	12°898'	23°202'				
13016	9	17°346'	13°986'	13088	35	0°026'	17°321'	13160	29	8°367'	20°566'	13232	25	14°978'	23°273'				
13017	11	17°681'	13°934'	13089	23	1°504'	17°918'	13161	27	8°456'	20°937'	13233	10	16°102'	23°277'				
13018	44	19°212'	13°303'	13090	14	2°730'	17°630'	13162	35	10°786'	20°710'	13234	30	17°097'	23°786'				
13019	13	20°501'	13°704'	13091	14	2°974'	17°210'	13163	19	11°300'	20°256'	13235	9	17°285'	23°809'				
13020	12	20°776'	13°125'	13092	8	6°426'	17°730'	13164	16	13°518'	20°762'	13236	11	17°340'	23°912'				
13021	8	21°190'	13°394'	13093	8	8°582'	17°800'	13165	9	13°616'	20°690'	13237	8	17°444'	23°265'				
13022	12	24°050'	13°390'	13094	10	9°458'	17°943'	13166	12	17°048'	20°139'	13238	8	18°778'	23°219'				
13023	8	24°780'	13°264'	13095	8	12°342'	17°104'	13167	10	17°832'	20°600'	13239	13	19°422'	23°570'				
13024	21	25°152'	13°345'	13096	8	13°441'	17°614'	13168	35	18°037'	20°090'	13240	11	19°618'	23°860'				
13025	22	25°506'	13°151'	13097	16	13°613'	17°698'	13169	8	18°904'	20°898'	13241	11	20°148'	23°324'				
13026	8	3°305'	14°448'	13098	23	16°241'	17°309'	13170	34	21°000'	20°436'	13242	13	24°226'	23°022'				
13027	19	3°585'	14°904'	13099	43	16°825'	17°428'	13171	8	21°265'	20°702'	13243	12	0°215'	24°154'				
13028	90	4°226'	14°010'	13100	8	17°334'	17°471'	13172	8	21°704'	20°614'	13244	8	1°761'	24°910'				
13029	9	4°299'	14°652'	13101	16	18°414'	17°375'	13173	8	23°044'	20°276'	13245	20	2°774'	24°592'				
13030	12	5°394'	14°710'	13102	20	18°906'	17°948'	13174	16	24°056'	20°510'	13246	26	4°234'	24°585'				
13031	13	5°847'	14°336'	13103	12	19°764'	17°138'	13175	8	24°562'	20°666'	13247	44	5°050'	24°283'				
13032	24	7°496'	14°418'	13104	73	20°954'	17°921'	13176	9	25°105'	20°258'	13248	9	6°365'	24°336'				
13033	17	9°596'	14°909'	13105	14	21°300'	17°850'	13177	40	3°565'	21°374'	13249	8	6°588'	24°286'				
13034	65	10°916'	14°626'	13106	20	21°944'	17°806'	13178	20	4°340'	21°766'	13250	13	10°846'	24°420'				
13035	18	11°198'	14°715'	13107	8	23°886'	17°502'	13179	14	6°732'	21°705'	13251	13	11°320'	24°888'				
13036	12	12°025'	14°176'	13108	36	25°264'	17°509'	13180	20	7°474'	21°492'	13252	8	12°906'	24°000'				
13037	11	17°568'	14°960'	13109	17	1°416'	18°481'	13181	8	8°592'	21°478'	13253	40	12°980'	24°290'				
13038	22	20°219'	14°774'	13110	14	2°404'	18°540'	13182	8	10°790'	21°184'	13254	8	13°086'	24°550'				
13039	15	21°212'	14°426'	13111	18	4°078'	18°994'	13183	8	10°886'	21°673'	13255	13	15°350'	24°241'				
13040	11	21°826'	14°654'	13112	43	4°313'	18°384'	13184	8	12°222'	21°586'	13256	8	19°664'	24°870'				
13041	12	22°438'	14°715'	13113	16	4°958'	18°718'	13185	9	13°615'	21°384'	13257	40	20°710'	24°708'				
13042	8	23°425'	14°150'	13114	27	6°074'	18°977'	13186	10	14°181'	21°258'	13258	13	20°975'	24°720'				
13043	30	23°884'	14°370'	13115	21	7°798'	18°757'	13187	10	15°006'	21°710'	13259	8	0°452'	25°561'				
13044	13	24°511'	14°303'	13116	39	8°267'	18°584'	13188	44	16°662'	21°286'	13260	40	2°122'	25°450'				
13045	12	24°558'	14°162'	13117	8	8°772'	18°074'	13189	14	17°154'	21°106'	13261	13	5°457'	25°620'				
13046	8	1°633'	15°518'	13118	8	9°430'	18°320'	13190	10	17°913'	21°816'	13262	12	6°704'	25°022'				
13047	15	3°106'	15°860'	13119	17	9°466'	18°932'	13191	41	18°434'	21°636'	13263	16	7°648'	25°474'				
13048	20	5°407'	15°686'	13120	8	13°714'	18°124'	13192	8	19°737'	21°920'	13264	38	8°202'	25°930'				
13049	10	6°085'	15°235'	13121	8	14°063'	18°176'	13193	31	21°934'	21°396'	13265	13	11°014'	25°874'				
13050	8	6°710'	15°508'	13122	9	15°382'	18°675'	13194	12	23°832'	21°905'	13266	8	11°728'	25°494'				
13051	31	7°054'	15°534'	13123	13	15°523'	18°121'	13195	20	25°124'	21°278'	13267	20	11°772'	25°030'				
13052	8	7°224'	15°580'	13124	17	18°434'	18°164'	13196	36	25°456'	21°366'	13268	32	11°919'	25°885'				
13053	8	7°720'	15°436'	1															

13341	34	22-746	2-104	13413	28	18-256	8-210	13485	14	23-264	12-989	13557	18	8-086	18-956	13629	15	19-662	22-910
13342	18	23-058	2-411	13414	19	19-451	8-136	13486	13	23-662	12-323	13558	30	9-936	18-038	13630*	39	19-692	22-281
13343	24	23-384	2-098	13415	17	20-436	8-860	13487	19	24-482	12-774	13559	38	11-238	18-912	13631	39	21-385	22-335
13344	10	1-324	3-346	13416	36	25-026	8-076	13488	16	1-536	13-651	13560	13	12-452	18-106	13632	13	21-957	22-626
13345	26	5-203	3-004	13417	23	0-780	9-536	13489	14	2-637	13-592	13561	31	12-513	18-260	13633	27	22-424	22-373
13346*	52	5-935	3-952	13418	8	5-356	9-907	13490	17	2-995	13-389	13562	16	12-888	18-944	13634	21	22-526	22-382
13347	16	7-014	3-352	13419	8	5-456	9-152	13491	17	7-152	13-226	13563	11	13-015	18-402	13635	19	25-309	22-865
13348*	36	12-512	3-815	13420	14	5-728	9-976	13492	20	7-416	13-318	13564	10	16-618	18-426	13636	20	1-853	23-282
13349*	42	14-266	3-176	13421	36	6-290	9-193	13493	24	11-077	13-461	13565	25	19-515	18-087	13637	30	4-344	23-704
13350	11	17-306	3-924	13422	12	7-475	9-227	13494	16	11-916	13-434	13566	25	21-716	18-920	13638	20	6-186	23-444
13351	14	19-392	3-737	13423	19	10-766	9-672	13495	30	13-076	13-746	13567	9	23-864	18-667	13639	19	7-155	23-026
13352	26	19-636	3-664	13424	20	13-564	9-276	13496	14	15-572	13-484	13568	25	25-693	18-216	13640	23	7-746	23-064
13353	34	23-704	3-126	13425	17	15-618	9-694	13497	15	15-668	13-457	13569	11	0-173	19-595	13641	13	7-850	23-233
13354	8	25-013	3-482	13426	15	17-324	9-884	13498*	38	16-852	13-286	13570	20	0-964	19-996	13642	15	8-484	23-016
13355	10	2-664	4-452	13427	12	19-256	9-115	13499	13	18-390	13-454	13571	31	1-674	19-015	13643	22	11-598	23-827
13356	18	5-346	4-156	13428	10	22-385	9-894	13500	11	21-246	13-956	13572*	60	3-012	19-680	13644	12	12-656	23-390
13357	30	5-672	4-158	13429	30	22-662	9-145	13501	18	23-684	13-064	13573	17	3-856	19-223	13645	13	12-688	23-126
13358	16	6-875	4-675	13430	20	23-645	9-616	13502	19	25-904	13-694	13574	18	4-207	19-616	13646	14	12-886	23-377
13359	12	14-029	4-412	13431	9	24-656	9-838	13503	8	0-922	14-417	13575	13	5-196	19-746	13647*	26	13-537	23-452
13360	11	16-102	4-762	13432	19	24-913	9-553	13504	29	1-384	14-634	13576*	38	6-467	19-068	13648	21	14-346	23-470
13361	22	17-240	4-136	13433	12	25-537	9-404	13505	14	2-008	14-556	13577	15	6-824	19-567	13649	13	14-418	23-516
13362	30	20-642	4-386	13434	35	0-053	10-384	13506	13	2-055	14-416	13578	14	8-106	19-939	13650	13	17-808	23-176
13363	15	22-333	4-104	13435	12	1-218	10-368	13507	16	5-588	14-955	13579	27	11-507	19-767	13651	17	17-866	23-911
13364	14	25-459	4-687	13436	12	2-217	10-398	13508	16	6-581	14-434	13580	28	12-534	19-844	13652	18	20-174	23-933
13365	38	2-352	5-836	13437	14	2-254	10-333	13509*	36	13-936	14-488	13581	23	12-694	19-244	13653	19	20-900	23-024
13366	13	9-084	5-892	13438	19	2-306	10-859	13510	31	14-364	14-664	13582	8	12-954	19-056	13654*	56	21-562	23-076
13367	19	10-123	5-354	13439	18	5-514	10-264	13511*	65	16-164	14-223	13583	13	13-132	19-186	13655	20	22-714	23-193
13368	14	21-096	5-156	13440	25	5-554	10-836	13512	28	18-752	14-524	13584	15	15-651	19-236	13656	14	5-056	24-005
13369*	52	22-644	5-607	13441	20	6-431	10-924	13513	13	19-544	14-979	13585	30	18-862	19-092	13657	14	7-167	24-152
13370	21	24-166	5-096	13442	16	6-876	10-508	13514*	76	20-612	14-843	13586*	39	19-799	19-664	13658	21	10-332	24-736
13371	18	0-413	6-724	13443	22	7-342	10-404	13515	17	21-173	14-586	13587	16	22-906	19-810	13659	14	13-776	24-504
13372	22	1-466	6-374	13444	21	7-406	10-676	13516	13	22-111	14-467	13588	19	23-396	19-294	13660	10	13-940	24-943
13373*	36	1-706	6-724	13445	19	8-711	10-832	13517	10	22-416	14-214	13589	12	24-824	19-782	13661	14	14-834	24-099
13374	13	2-914	6-515	13446	16	8-868	10-786	13518	21	2-600	15-544	13590	24	25-126	19-355	13662	28	15-405	24-484
13375	18	3-224	6-094	13447	21	12-006	10-496	13519	16	3-856	15-776	13591	22	24-144	19-497	13663*	37	17-042	24-394
13376	14	5-724	6-906	13448*	52	14-326	10-346	13520	14	4-916	15-007	13592	18	1-643	20-766	13664*	36	17-684	24-416
13377	28	6-116	6-658	13449	32	15-070	10-855	13521	14	11-354	15-931	13593	10	2-694	20-504	13665	21	18-013	24-088
13378	10	8-056	6-706	13450	20	15-918	10-664	13522*	39	16-195	15-649	13594	12	4-396	20-724	13666	15	20-036	24-846
13379	23	9-498	6-106	13451	12	16-477	10-668	13523	28	17-912	15-193	13595	28	4-693	20-340	13667	15	23-366	24-710
13380	13	9-766	6-675	13452	15	17-206	10-896	13524	9	19-943	15-404	13596	33	8-284	20-526	13668	12	23-436	24-031
13381	19	10-480	6-620	13453	22	17-684	10-148	13525	18	21-746	15-427	13597	18	8-537	20-664	13669	30	23-468	24-858
13382*	80	10-596	6-779	13454*	37	23-216	10-826	13526	12	21-935	15-190	13598	11	9-594	20-172	13670*	46	24-164	24-404
13383	22	11-416	6-044	13455	20	23-822	10-458	13527	18	23-756	15-972	13599	16	10-252	20-407	13671	17	2-540	25-056
13384*	33	15-244	6-654	13456	10	24-418	10-294	13528	20	24-827	15-458	13600	11	10-815	20-704	13672	22	2-646	25-556
13385	9	18-459	6-534	13457	21	25-430	10-985	13529	17	25-231	15-514	13601	17	13-488	20-095	13673	21	8-218	25-521
13386	28	23-306	6-466	13458	16	25-714	10-402	13530	23	1-568	16-476	13602*	38	13-901	20-735	13674	25	9-133	25-144
13387	8	23-754	6-096	13459	36	25-726	10-306	13531	20	1-874	16-805	13603	19	17-058	20-046	13675	30	10-964	25-421
13388	11	23-888	6-904	13460*	56	1-100	11-840	13532	18	7-067	16-356	13604	16	17-555	20-424	13676	36	11-341	25-975
13389	36	23-967	6-430	13461	20	3-984	11-682	13533	11	7-082	16-662	13605	16	18-305	20-655	13677	16	17-520	25-094
13390	13	24-013	6-150	13462	9	5-058	11-180	13534	16	11-496	16-024	13606	22	18-400	20-366	13678*	46	18-316	25-196
13391	9	24-646	6-402	13463	23	5-385	11-456	13535	29	13-994	16-606	13607	22	19-705	20-100	13679	36	21-934	25-693
13392	18	24-760	6-197	13464	10	8-218	11-242	13536	23	16-632	16-560	13608	11	22-883	20-864	13680	36	22-684	25-634
13393*	39	0-600	7-526	13465	22	9-434	11-826	13537	12	17-616	16-333	13609	32	24-396	20-876	13681	34	22-815	25-874
13394	8	7-898	7-356	13466*	32	13-474	11-282	13538	17	18-614	16-196	13610	19	2-725	21-522				
13395	23	9-284	7-296	13467	13	14-306	11-826	13539	16	21-946	16-014	13611	32	3-057	21-606				
13396	14	9-606	7-866	13468	22	14-476	11-682	13540	13	24-448	16-966	13612	15	6-605	21-606				
13397*	44	10-848	7-357	13469*	72	14-501	11-804	13541	12	24-722	16-106	13613	20	8-165	21-727				
13398	16	13-773	7-342	13470	34	18-918	11-152	13542	13	25-144	16-753	13614	18	14-124	21-484				
13399	36	13-886	7-735	13471*	240	19-143	11-714	13543	24	25-994	16-910	13615	27	18-810	21-006				
13400	30	14-634	7-754	13472	19	22-046	11-704	13544*	36	2-809	17-750	13616	18	22-244	21-756				
13401	14	18-834	7-658	13473	14	24-084	11-244	13545*	56	6-949	17-324	13617	22	0-076	22-306				
13402	12	19-234	7-691	13474	18	25-886	11-993	13546	15	7-568	17-278	13618	10	0-175	22-497				
13403	37	20-552	7-376	13475	36	0-656	12-286	13547	22	7-624	17-626	13619	16	1-438	22-166				
13404	11	21-200	7-836	13476	32	6-376</													



$$Mag. = 17.3 - 1.10 \sqrt{d}$$

R.A. 6<sup>h</sup> 24<sup>m</sup>

Plate 436; 1915 Jan. 11.

Provisional Constants.

A

B

C

-01749 + 00852 -01059

D

E

F

-00823 -01779 +0118

Mag. = 17.3-1.10√d

No.	d	x	y																	
13701	17	0.936	0.984																	
13702	8	3.974	0.454																	
13703	22	4.562	0.356																	
13704	12	6.106	0.236																	
13705	8	6.788	0.673																	
13706	25	8.026	0.038																	
13707*	78	8.545	0.216																	
13708	16	10.377	0.800																	
13709	8	12.650	0.493																	
13710	8	13.551	0.840																	
13711	18	14.968	0.764																	
13712*	95	16.018	0.219																	
13713	10	22.096	0.684																	
13714	10	22.720	0.520																	
13715	8	2.162	1.749																	
13716	41	3.885	1.026																	
13717	8	6.734	1.798																	
13718	8	9.678	1.473																	
13719	9	11.434	1.040																	
13720	8	13.514	1.266																	
13721	10	17.782	1.727																	
13722	12	17.886	1.793																	
13723	8	18.460	1.866																	
13724	12	18.754	1.358																	
13725	11	19.545	1.450																	
13726	33	23.580	1.164																	
13727	28	20.660	2.104																	
13728	8	0.578	2.412																	
13729	12	0.900	2.095																	
13730	8	1.104	2.348																	
13731	10	3.636	2.836																	
13732	10	5.440	2.356																	
13733	12	5.701	2.524																	
13734	40	9.518	2.618																	
13735	9	12.372	2.334																	
13736	25	15.308	2.148																	
13737	8	16.516	2.860																	
13738	11	17.235	2.907																	
13739	9	18.492	2.946																	
13740	13	19.156	2.228																	
13741	23	21.748	2.732																	
13742	8	21.872	2.904																	
13743	12	25.234	2.976																	
13744	12	25.734	2.017																	
13745	26	1.228	3.117																	
13746	8	2.544	3.452																	
13747	24	4.358	3.221																	
13748	8	4.617	3.860																	
13749	25	5.942	3.656																	
13750	8	7.631	3.681																	
13751	30	8.104	3.232																	
13752	12	9.832	3.614																	
13753*	46	12.628	3.666																	
13754	45	14.766	3.238																	
13755	34	15.510	3.100																	

14044*	59	5-612	19-642	14116	15	1-272	24-846	14176	17	14-396	1-856	14248	37	1-796	6-355	14320	17	16-972	9-440
14045	38	6-113	19-123	14117*	60	1-957	24-382	14177	9	15-781	1-769	14249	14	6-002	6-242	14321	9	20-989	9-345
14046	13	12-209	19-526	14118	8	5-462	24-794	14178	8	19-383	1-732	14250	9	6-002	6-432	14322	11	21-242	9-460
14047	18	12-996	19-690	14119	8	8-390	24-711	14179	23	19-824	1-906	14251	8	7-860	6-030	14323	13	23-126	9-626
14048	16	14-151	19-052	14120*	54	10-132	24-097	14180	27	23-284	1-316	14252	8	8-098	6-479	14324	11	25-092	9-804
14049	36	15-177	19-378	14121*	64	11-801	24-912	14181	10	25-094	1-656	14253	16	9-276	6-315	14325	9	1-716	10-530
14050	40	16-209	19-378	14122	49	14-396	24-350	14182	14	3-156	2-226	14254	8	13-670	6-161	14326	12	2-650	10-007
14051	26	16-644	19-350	14123	40	17-804	24-701	14183	4	3-775	2-742	14255	19	14-657	6-402	14327	13	2-660	10-260
14052	9	17-072	19-300	14124	12	18-712	24-198	14184	13	7-776	2-584	14256	22	14-985	6-732	14328	11	4-044	10-366
14053	35	17-462	19-986	14125	44	18-744	24-530	14185	9	11-254	2-738	14257	25	15-552	6-164	14329	8	4-243	10-704
14054	8	17-478	19-745	14126	33	19-819	24-452	14186	13	11-322	2-504	14258	8	17-255	6-419	14330	38	4-698	10-430
14055	9	17-860	19-708	14127	8	20-872	24-110	14187	8	11-863	2-642	14259	10	18-064	6-329	14331	31	5-234	10-327
14056	13	18-690	19-058	14128	24	4-097	25-632	14188*	55	13-574	2-720	14260	42	18-841	6-286	14332	11	6-628	10-009
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14791	20	2°756	7°724	14863	24	6°100	12°956	14935	28	23°534	15°384	15007	15	11°779	20°667	15079*	52	7°216	24°656
14792	22	4°422	7°162	14864	16	8°906	12°657	14936	37	9°995	16°844	15008	27	12°113	20°602	15080	10	7°405	24°292
14793	23	5°786	7°556	14865	18	9°292	12°096	14937	17	3°800	16°902	15009	8	12°714	20°284	15081	24	9°936	24°906
14794*	40	9°028	7°700	14866	21	9°557	12°116	14938	14	6°536	16°260	15010	20	13°095	20°029	15082	11	10°132	24°178
14795	36	10°432	7°329	14867	17	10°034	12°656	14939	17	10°114	16°955	15011	14	13°385	20°726	15083	17	13°290	24°724
14796	11	13°382	7°583	14868*	54	13°632	12°914	14940	10	12°666	16°738	15012	19	15°514	20°774	15084*	36	13°954	24°596
14797	18	18°136	7°110	14869	10	14°145	12°883	14941*	60	12°158	16°294	15013*	38	18°711	20°357	15085	19	14°360	24°328
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14800	36	21°993	7°754	14872	30	15°034	12°624	14944	11	15°104	16°024	15016	32	20°100	20°126	15088	10	20°318	24°704
14801	33	22°974	7°304	14873	26	15°968	12°026	14945	17	18°034	16°135	15017	13	21°690	20°548	15089*	57	23°149	24°852
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14803	16	4°556	8°175	14875	20	18°296	12°194	14947	16	19°613	16°151	15019	45	24°136	20°716	15091	36	24°377	24°924
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14807*	38	13°966	8°666	14879	33	22°150	12°646	14951	25	3°391	17°842	15023	32	3°934	21°903	15095	19	7°584	25°946
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14809	15	16°305	8°002	14881	39	23°076	12°044	14953	22	7°900	17°754	15025	10	6°418	21°096	15097*	52	9°688	25°194
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14813*	37	19°176	8°604	14885	11	3°180	13°130	14957	15	13°295	17°824	15029	17	9°985	21°934	15101	15	15°603	25°764
14814	16	19°884	8°806	14886	16	4°022	13°419	14958*	36	17°218	17°724	15030	25	11°254	21°873	15102	12	15°605	25°902
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14816	13	21°296	8°012	14888	36	8°463	13°616	14960	15	23°159	17°167	15032	22	20°944	21°097	15104	20	18°666	25°602
14817	24	21°396	8°796	14889*	30	9°493	13°065	14961	36	24°481	17°920	15033	18	2°394	22°280	15105	36	18°696	25°605
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14825*	38	5°855	9°006	14897	8	23°252	13°615	14969	16	11°306	18°460	15041	26	13°466	22°766				
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14831*	68	12°506	9°735	14903	26	5°473	14°270	14975	14	16°214	18°067	15047	18	16°960	22°296				
14832	19	13°866	9°292	14904*	36	5°756	14°906	14976	10	16°642	18°116	15048	10	19°157	22°576				
14833*	36	15°626	9°684	14905	32	6°144	14°019	14977	32	18°382	18°794	15049	17	19°444	22°448				
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14841	38																		

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15516	8	24-602	16-626	15588	8	20-371	19-810	15660	50	9-330	23-305	R.A. 6 <sup>h</sup> 56 <sup>m</sup>				15806	8	23-475	2-574
15517	8	24-682	16-010	15589	8	20-470	19-764	15661	10	13-296	23-692	Plate 471; 1915 Feb. 10.				15807	8	25-264	2-528
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15519	12	2-084	17-956	15591	8	25-286	19-812	15663	21	13-414	23-910	A B C				15809	8	3-746	3-255
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16977	10	4-054	15-858	17049	13	12-670	16-794	17121	8	2-813	18-506	17193	14	22-908	19-085	17265	11	0-164	22-326
16978	16	4-116	15-346	17050	8	13-207	16-252	17122	8	3-658	18-152	17194	25	23-532	19-954	17266	13	0-984	22-856
16979	25	6-357	15-842	17051	8	13-804	16-664	17123	8	4-160	18-510	17195	9	23-765	19-815	17267	31	2-630	22-587
16980	18	7-170	15-500	17052	11	13-920	16-084	17124	9	4-494	18-922	17196	17	24-063	19-018	17268	40	5-342	22-216
16981	8	8-053	15-884	17053	9	16-231	16-248	17125	10	5-011	18-954	17197	8	24-616	19-916	17269	15	5-770	22-933
16982	17	8-518	15-681	17054	11	16-864	16-032	17126	25	5-300	18-946	17198	8	0-902	20-152	17270	11	6-488	22-151
16983	9	10-370	15-674	17055	21	16-956	16-776	17127	14	6-836	18-876	17199	15	3-344	20-783	17271	11	6-524	22-554
16984	8	10-890	15-367	17056	15	17-010	16-560	17128	17	7-096	18-398	17200	21	3-350	20-750	17272	12	7-695	22-683
16985	10	11-802	15-912	17057	9	17-090	16-652	17129	11	7-589	18-214	17201	9	4-120	20-648	17273	8	8-362	22-586
16986	16	11-800	15-060	17058	9	17-506	16-726	17130	13	8-932	18-008	17202	8	4-261	20-030	17274	8	8-370	22-934
16987	10	11-904	15-906	17059	12	17-520	16-109	17131	11	12-807	18-660	17203	12	4-823	20-760	17275	14	8-477	22-510
16988	12	12-146	15-432	17060	10	18-218	16-800	17132	41	12-897	18-018	17204	10	5-883	20-929	17276	20	8-764	22-454
16989	8	12-682	15-042	17061	15	18-544	16-672	17133	8	16-382	18-470	17205	9	5-925	20-017	17277	30	8-876	22-080
16990	20	13-261	15-430	17062	9	18-776	16-002	17134	11	16-494	18-906	17206	10	6-111	20-730	17278	12	10-866	22-143
16991	10	13-656	15-512	17063	8	19-172	16-756	17135	12	16-760	18-260	17207	12	6-314	20-842	17279	16	12-368	22-470
16992	13	14-085	15-400	17064	8	19-339	16-682	17136	12	17-118	18-873	17208	10	6-486	20-129	17280	34	12-607	22-977
16993	29	14-733	15-345	17065	10	20-262	16-632	17137*	87	17-635	18-935	17209	10	7-422	20-274	17281	10	14-024	22-405
16994	14	14-757	15-170	17066	10	21-108	16-238	17138	8	17-756	18-342	17210	10	7-842	20-160	17282	18	14-032	22-390
16995	10	15-156	15-246	17067	9	21-292	16-653	17139	12	18-108	18-976	17211	9	9-804	20-593	17283	10	14-072	22-253
16996	8	15-208	15-275	17068	13	21-707	16-286	17140	9	18-709	18-086	17212	10	11-333	20-761	17284	10	14-612	22-966
16997	18	15-520	15-178	17069	8	22-232	16-436	17141	8	19-150	18-554	17213	10	11-910	20-518	17285	13	15-418	22-319
16998	8	16-754	15-308	17070	14	22-388	16-128	17142	24	19-298	18-416	17214	39	11-973	20-578	17286	8	15-854	22-885
16999	14	16-962	15-991	17071	19	23-110	16-868	17143	8	20-275	18-070	17215	24	12-932	20-480	17287	22	16-311	22-592
17000	12	17-842	15-400	17072*	43	23-226	16-490	17144	15	20-435	18-937	17216	8	13-452	20-663	17288	8	16-325	22-606
17001	9	17-850	15-696	17073	10	23-628	16-681	17145	10	20-574	18-665	17217	9	14-214	20-554	17289	10	16-560	22-680
17002	8	17-984	15-416	17074	21	25-081	16-116	17146	10	20-986	18-481	17218	12	15-610	20-095	17290	8	16-622	22-241
17003*	40	18-065	15-560	17075	10	25-292	16-740	17147	11	21-811	18-612	17219	10	16-130	20-177	17291	10	16-876	22-482
17004	8	18-184	15-822	17076	15	25-394	16-946	17148	8	22-165	18-744	17220	12	16-884	20-604	17292	15	18-002	22-712
17005	10	18-669	15-590	17077	9	1-130	17-480	17149	20	22-965	18-732	17221	29	16-895	20-326	17293	11	18-672	22-852
17006	8	18-970	15-140	17078	19	1-405	17-814	17150	38	24-016	18-044	17222	14	16-884	20-519	17294	8	20-026	22-904
17007	8	19-320	15-535	17079	10	1-712	17-500	17151	8	24-224	18-846	17223	23	17-474	20-784	17295	12	20-275	22-056
17008	14	19-373	15-736	17080	39	1-910	17-883	17152	14	25-108	18-975	17224	14	18-588	20-191	17296	11	20-836	22-885
17009	24	19-534	15-264	17081	19	2-103	17-932	17153	9	0-142	19-252	17225	14	20-796	20-599	17297	41	21-689	22-888
17010	19	19-620	15-112	17082	10	2-992	17-232	17154	31	0-264	19-214	17226	16	20-920	20-688	17298	9	23-176	22-085
17011	12	20-100	15-680	17083	8	3-506	17-174	17155	10	1-866	19-034	17227	16	22-447	20-898	17299	14	23-231	22-756
17012	8	21-380	15-835	17084	9	3-601	17-320	17156	21	2-691	19-698	17228	12	22-712	20-786	17300	8	23-714	22-018
17013	10	21-578	15-233	17085	9	3-766	17-620	17157	17	3-824	19-652	17229	13	24-238	20-790	17301	11	24-690	22-954
17014	11	21-726	15-197	17086*	39	5-223	17-085	17158	15	4-374	19-180	17230	14	24-425	20-790	17302	26	1-473	23-561
17015	17	21-760	15-826	17087	12	5-720	17-605	17159	8	4-621	19-615	17231	21	25-360	20-147	17303	12	1-592	23-628
17016	18	21-982	15-260	17088	8	6-593	17-013	17160	17	5-016	19-864	17232	11	25-634	20-103	17304	13	4-187	23-565
17017	24	22-256	15-694	17089	31	7-648	17-370	17161*	36	5-554	19-450	17233	8	25-806	20-582	17305	17	6-610	23-410
17018	8	22-752	15-768	17090	14	7-926	17-521	17162*	44	5-632	19-528	17234	8	25-827	20-584	17306	8	7-073	23-866
17019	23	22-897	15-822	17091	9	8-092	17-554	17163*	39	6-320	19-380	17235	8	0-114	21-628	17307	11	8-255	23-124
17020	21	23-117	15-006	17092	12	9-436	17-682	17164	9	6-370	19-257	17236	28	0-532	21-735	17308	28	11-233	23-512
17021	10	23-707	15-730	17093	10	9-900	17-107	17165	10	6-800	19-050	17237	13	0-540	21-640	17309	8	12-534	23-022
17022	13	24-518	15-502	17094	8	10-546	17-400	17166	8	7-700	19-272	17238	15	1-040	21-616	17310	19	12-621	23-075
17023	22	24-856	15-223	17095	22	10-781	17-960	17167	15	8-216	19-396	17239	14	4-002	21-116	17311	12	12-816	23-285
17024	8	25-074	15-226	17096	17	10-798	17-669	17168	12	8-258	19-754	17240	11	4-543	21-135	17312	10	14-530	23-904
17025	13	0-850	16-846	17097	9	11-184	17-284	17169	10	8-405	19-693	17241	17	8-296	21-700	17313	8	16-720	23-720
17026	8	1-286	16-572	17098	9	11-287	17-992	17170	12	9-540	19-906	17242	20	8-324	21-887	17314	19	18-032	23-593
17027	16	3-148	16-762	17099	14	13-187	17-873	17171	8	9-605	19-166	17243	8	9-017	21-006	17315	8	19-250	23-760
17028	23	3-636	16-73																

762		17326	18	4.077	24.976	763		17327	17	4.766	24.524	764		17328	15	5.330	24.206	765		17329	15	6.316	24.213	766		17330	49	7.275	24.240	767		17331	9	8.454	24.613	768		17332	19	8.520	24.239	769		17333	8	9.397	24.204	770		17334	25	9.781	24.585	771		17335	21	12.190	24.430	772		17336	25	12.926	24.406	773		17337	9	13.169	24.526	774		17338	9	13.176	24.544	775		17339	60	16.104	24.021	776		17340	10	17.174	24.392	777		17341	20	17.272	24.064	778		17342	65	17.850	24.989	779		17343	19	18.252	24.793	780		17344	36	19.596	24.366	781		17345	26	20.215	24.719	782		17346	8	20.540	24.649	783		17347	14	20.764	24.658	784		17348	11	21.776	24.249	785		17349	8	22.814	24.743	786		17350	29	23.312	24.910	787		17351	13	24.092	24.225	788		17352	33	24.356	24.612	789		17353	13	24.679	24.532	790		17354	45	1.350	25.878	791		17355	19	1.626	25.390	792		17356	22	2.072	25.563	793		17357	19	3.104	25.510	794		17358	10	6.070	25.701	795		17359	8	7.084	25.699	796		17360	20	9.706	25.918	797		17361	9	9.740	25.468	798		17362	17	12.555	25.370	799		17363	11	13.701	25.531	800		17364	22	13.284	25.774	801		17365	9	14.145	25.915	802		17366	8	15.104	25.196	803		17367	30	16.972	25.032	804		17368	30	16.394	25.276	805		17369	22	17.026	25.840	806		17370	13	17.732	25.365	807		17371	8	18.954	25.548	808		17372	36	19.454	25.852	809		17373	14	19.516	25.668	810		17374	21	19.528	25.694	811		17375	8	19.884	25.570	812		17376	10	20.102	25.143	813		17377	23	20.988	25.722	814		17378	26	21.568	25.212	815		17379	29	21.802	25.311	816		17380	20	22.800	25.994	817		17381	8	23.234	25.428	818		17382	9	23.352	25.970	819		17383	60	23.400	25.770	820		17384	12	24.263	25.440	821		17385	17	24.889	25.932	822		17386	11	25.611	25.354	823		17387	12	25.640	25.609	824		17388	10	26.000	25.609
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17672	12	6.178	10.152	17744	8	15.047	12.220	17816	10	2.124	15.638	17888	8	19.482	17.637	17960	8	22.319	20.307
17673	17	6.317	10.418	17745	22	15.781	12.190	17817	18	2.456	15.354	17889	17	20.050	17.530	17961	9	23.023	20.528
17674	28	6.348	10.402	17746	8	16.585	12.676	17818	10	3.984	15.898	17890	22	20.418	17.638	17962	8	23.058	20.841
17675	9	8.038	10.642	17747	8	17.192	12.120	17819	13	5.332	15.895	17891	8	21.283	17.868	17963	8	23.732	20.089
17676	17	8.250	10.926	17748	12	18.190	12.410	17820	9	5.691	15.212	17892	19	21.307	17.254	17964	16	24.370	20.280
17677	18	9.676	10.922	17749	12	19.456	12.248	17821	8	5.738	15.962	17893	8	22.342	17.760	17965	9	0.001	21.834
17678	15	12.804	10.076	17750	22	19.989	12.260	17822	9	5.990	15.862	17894	8	23.353	17.408	17966	8	0.124	21.060
17679	19	13.136	10.500	17751	20	20.988	12.398	17823	22	6.448	15.728	17895	9	23.644	17.072	17967	20	2.927	21.905
17680	15	19.624	10.958	17752	8	22.699	12.862	17824	11	6.620	15.802	17896	11	24.192	17.430	17968	22	5.612	21.270
17681	8	19.988	10.432	17753	11	23.662	12.210	17825	63	6.938	15.962	17897	16	24.472	17.461	17969	12	8.332	21.641
17682	8	21.354	10.586	17754	18	0.779	13.668	17826	12	9.776	15.948	17898	14	24.652	17.882	17970	32	8.812	21.930
17683	8	22.578	10.650	17755	23	0.984	13.429	17827	17	9.810	15.204	17899	33	24.940	17.628	17971	19	10.037	21.062
17684	8	22.765	10.548	17756	17	1.573	13.598	17828	24	9.858	15.992	17900	17	0.612	18.890	17972	13	10.354	21.310
17685	8	24.230	10.030	17757	19	1.760	13.416	17829	9	9.931	15.170	17901	32	1.651	18.188	17973	35	10.661	21.221
17686	8	24.244	10.286	17758	11	5.346	13.079	17830	10	12.660	15.966	17902	26	5.059	18.478	17974	17	10.676	21.299
17687	14	25.488	10.916	17759	8	5.631	13.868	17831	8	12.855	15.936	17903	8	8.220	18.598	17975	20	15.990	21.471
17688	9	25.864	10.142	17760	8	8.116	13.500	17832	8	13.066	15.871	17904	13	8.626	18.927	17976	10	16.176	21.869
17689	9	0.078	11.653	17761	8	9.817	13.938	17833	12	16.165	15.686	17905	8	8.806	18.302	17977	15	16.586	21.140
17690	19	0.505	11.486	17762	9	11.796	13.568	17834	8	18.020	15.830	17906	12	10.262	18.198	17978	8	17.953	21.121
17691	10	1.116	11.955	17763	8	12.820	13.028	17835	22	18.635	15.706	17907	9	11.085	18.228	17979	9	19.300	21.501
17692	8	1.376	11.994	17764	9	13.028	13.280	17836	8	19.646	15.668	17908	11	12.394	18.094	17980	12	20.738	21.510
17693	16	2.009	11.732	17765	34	15.284	13.796	17837	9	19.782	15.902	17909	23	13.032	18.830	17981	12	20.808	21.011
17694	9	2.978	11.262	17766	37	15.728	13.078	17838	10	20.058	15.841	17910	8	13.537	18.880	17982	8	20.918	21.885
17695	13	3.482	11.940	17767	13	15.767	13.535	17839	20	21.152	15.156	17911	21	17.228	18.652	17983	8	22.825	21.938
17696	11	4.113	11.088	17768	8	16.140	13.890	17840	8	23.134	15.099	17912	8	17.380	18.633	17984	10	22.858	21.346
17697	21	5.753	11.199	17769	14	16.620	13.902	17841	26	23.654	15.572	17913	10	17.406	18.012	17985	12	22.872	21.660
17698	25	6.521	11.561	17770	21	17.091	13.040	17842	21	23.934	15.528	17914	15	17.442	18.217	17986	8	24.123	21.820
17699	8	6.830	11.515	17771	8	17.135	13.794	17843	8	24.698	15.112	17915	8	17.579	18.407	17987	10	24.295	21.316
17700	16	7.087	11.584	17772	23	17.651	13.262	17844	8	25.214	15.884	17916	19	19.370	18.591	17988	20	24.444	21.665
17701	10	9.933	11.747	17773	9	18.786	13.599	17845	11	25.461	15.183	17917	16	19.581	18.774	17989	15	25.376	21.784
17702	8	10.186	11.633	17774	13	19.706	13.752	17846	41	0.838	16.643	17918	40	21.058	18.594	17990	10	25.588	21.750
17703	14	11.654	11.168	17775	8	20.832	13.226	17847	9	1.246	16.830	17919	20	22.148	18.202	17991	8	0.938	22.912
17704	16	12.615	11.910	17776	8	22.004	13.426	17848	12	2.691	16.242	17920	19	22.238	18.354	17992	8	1.692	22.248
17705	8	12.819	11.365	17777	8	23.534	13.659	17849	9	4.365	16.810	17921	29	22.903	18.044	17993	8	4.883	22.603
17706	9	13.620	11.700	17778	16	24.228	13.338	17850	22	6.332	16.256	17922	8	23.164	18.486	17994	34	6.490	22.403
17707	21	14.218	11.688	17779	8	25.076	13.754	17851	9	6.978	16.861	17923	22	24.990	18.618	17995	54	6.566	22.437
17708	8	15.298	11.550	17780	12	25.562	13.794	17852	8	7.960	16.210	17924	29	0.106	19.372	17996	27	6.957	22.452
17709	16	15.979	11.990	17781	23	25.672	13.660	17853	8	7.995	16.620	17925	9	0.558	19.246	17997	12	7.028	22.917
17710	8	16.030	11.630	17782	8	25.968	13.779	17854	12	9.961	16.934	17926	10	1.713	19.160	17998	11	7.029	22.801
17711	8	16.440	11.995	17783	8	0.106	14.602	17855	8	11.384	16.100	17927	8	3.780	19.506	17999	12	8.234	22.750
17712	12	16.449	11.082	17784	8	3.804	14.608	17856	11	11.720	16.320	17928	23	4.794	19.326	18000	18	8.515	22.170
17713	8	16.508	11.359	17785	33	5.924	14.240	17857	32	13.226	16.202	17929	11	4.952	19.173	18001	9	8.579	22.356
17714	21	18.614	11.408	17786	15	6.040	14.172	17858	27	14.418	16.132	17930	27	6.396	19.386	18002	21	9.458	22.885
17715	15	18.775	11.430	17787	18	9.540	14.298	17859	12	14.670	16.347	17931	14	9.655	19.092	18003	9	11.539	22.912
17716	13	18.856	11.607	17788	12	9.614	14.389	17860	15	15.369	16.523	17932	47	15.658	19.173	18004	9	11.780	22.642
17717	8	19.406	11.182	17789	24	11.054	14.160	17861	10	16.204	16.409	17933	24	16.692	19.769	18005	8	12.433	22.420
17718	41	19.825	11.170	17790	23	11.172	14.796	17862	18	19.698	16.326	17934	12	17.244	19.928	18006	12	12.662	22.010
17719	44	20.310	11.678	17791	8	12.049	14.162	17863	17	20.218	16.930	17935	45	17.792	19.720	18007	8	13.700	22.311
17720	9	20.343	11.880	17792	11	12.526	14.867	17864	16	20.846	16.478	17936	13	20.666	19.168	18008	11	17.871	22.940
17721	13	20.344	11.658	17793	17	12.624	14.220	17865	10	21.620	16.086	17937	30	21.362	19.496	18009	14	18.614	22.450
17722	14	20.928	11.299	17794	18	13.130	14.971	17866	20	23.000	16.180	17938	8	22.109	19.461	18010	8	18.752	22.754
17723	8	21.361	11.124	17795	11	13.457	14.334	17867	20	22.934	16.201	17939	12	22.187	19.915	18011	41	19.171	22.192
17724	9	21.692	11.725	17796	21	13.458	14.398	17868	8	24.048	16.130	17940	14	22.459	19.037	18012	20	19.461	22.683
17725	23	21.920	11.770	17797	18	16.280	14.164	17869	10	24.344	16.758	17941	9	24.207	19.202	18013	9	19.562	22.660
17726	18	24.310	11.918	17798	10	16.458	14.030	17870	8	24.587	16.388	17942	14	24.448	19.362	18014	10	20.853	22.924
17727	20	24.975	11.458	17799	11	17.448	14.426	17871	14	0.730	17.026	17943	8	24.737	19.400	18015	12	21.398	22.881
17728	10	25.246	11.636	17800	8	19.383	14.198	17872	12	3.016	17.071	17944	8	0.388	20.948	18016	27	21.501	22.936
17729	11	1.772	12.306	17801	8	19.794	14.972	17873	14	3.271	17.657	17945	21	1.196	20.104	18017	10	24.444	22.673
17730	8	3.123	12.734	17802	21	19.838	14.818	17874	10	3.845	17.892	17946	8	1.440	20.150	18018	8	25.657	22.302
17731	11	3.138	12.326	17803	29	20.590	14.456	17875	15	5.524	17.046	17947	10	1.916	20.851	18019	9	2.403	23.088
17732	9	3.562	12.366	17804	24	21.118	14.587	17876	17	5.582	17.380	17948	20	2.104	20.930	18020	45	3.638	23.350
17733	9	3.880	12.107	17805	24	21.820	14.236	17877	10	10.447	17.232	17949	24	6.329	20.378	18021	8	4.154	23.416
17734	20																		



22-319 20-101	18032	8	11-830	23-010	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18156	10	9-676	3-824	18228	8	16-828	6-435	18300	9	8-698	9-574
23-023 20-101	18033	14	12-887	23-675			18157	16	9-856	3-094	18229	17	17-046	6-936	18301	8	9-286	9-346
23-058 20-101	18034	16	13-790	23-623			18158	86	11-090	3-723	18230	8	18-550	6-401	18302	14	9-866	9-750
23-732 20-101	18035	13	15-392	23-756			18159	9	12-348	3-746	18231	8	18-764	6-306	18303	8	12-349	9-529
24-370 20-101	18036	9	15-634	23-760	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18160	8	14-123	3-654	18232	15	19-926	6-848	18304	10	13-105	9-312
0-001 21-022	18037	8	16-132	23-583			18161	8	15-934	3-103	18233	8	20-212	6-942	18305	11	14-004	9-858
0-124 21-022	18038	8	16-478	23-030			18162	8	20-346	3-160	18234	8	20-931	6-533	18306	8	14-120	9-126
2-927 21-022	18039	13	17-830	23-570			18163	8	20-735	3-355	18235	8	21-155	6-052	18307	8	14-565	9-413
5-012 21-022	18040	16	23-590	23-672	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18164	8	21-593	3-183	18236	12	23-297	6-184	18308	8	14-586	9-384
8-332 21-022	18041	14	25-118	23-654			18165	8	25-778	3-832	18237	18	3-062	7-306	18309	11	14-594	9-112
8-812 21-022	18042	13	25-592	23-976			18166	8	0-336	4-398	18238	21	3-996	7-890	18310	20	14-750	9-883
10-037 21-022	18043	8	1-820	24-366			18167	8	7-676	4-994	18239	18	5-266	7-224	18311	12	15-380	9-804
10-354 21-022	18044	23	2-090	24-747	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18168	8	9-678	4-064	18240	9	7-572	7-398	18312	13	16-314	9-820
10-661 21-022	18045	12	2-416	24-664			18169	9	10-287	4-884	18241	25	7-618	7-380	18313	8	18-075	9-629
10-676 21-022	18046	11	4-618	24-883			18170	11	10-430	4-776	18242	8	8-082	7-940	18314	10	18-321	9-446
15-990 21-022	18047	17	4-900	24-729			18171	10	11-078	4-980	18243	11	9-081	7-080	18315	8	18-915	9-768
16-176 21-022	18048	8	5-706	24-866	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18172	8	11-392	4-414	18244	9	9-215	7-486	18316	10	20-223	9-342
16-586 21-022	18049	14	7-391	24-766			18173	8	11-872	4-362	18245	57	9-236	7-982	18317	8	21-187	9-800
17-953 21-022	18050	8	7-486	24-687			18174	8	12-485	4-466	18246	8	10-154	7-352	18318	8	21-282	9-428
19-300 21-022	18051	9	7-880	24-341			18175	8	12-963	4-949	18247	23	10-842	7-417	18319	9	21-297	9-656
20-738 21-022	18052	16	10-583	24-492	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18176	10	13-148	4-568	18248	8	11-180	7-428	18320	8	23-288	9-402
20-898 21-022	18053	18	10-828	24-590			18177	8	15-011	4-676	18249	10	11-322	7-296	18321	8	24-100	9-512
20-918 21-022	18054	8	11-242	24-502			18178	8	15-928	4-288	18250	8	11-424	7-162	18322	8	25-102	9-612
22-858 21-022	18055	19	12-556	24-438			18179	16	16-644	4-996	18251	18	14-570	7-594	18323	8	1-848	10-338
24-123 21-022	18056	24	14-499	24-868	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18180	8	17-571	4-750	18252	14	14-904	7-232	18324	8	1-864	10-594
24-272 21-022	18057	22	14-696	24-160			18181	9	18-824	4-729	18253	38	15-874	7-230	18325	8	3-482	10-420
24-295 21-022	18058	14	16-921	24-313			18182	18	19-801	4-564	18254	8	15-805	7-063	18326	20	3-954	10-240
24-444 21-022	18059	12	18-642	24-578			18183	18	21-204	4-372	18255	25	16-051	7-414	18327	13	4-945	10-946
25-376 21-022	18060	14	19-284	24-344	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18184	8	22-324	4-772	18256	10	16-599	7-027	18328	8	5-402	10-960
25-588 21-022	18061	14	19-511	24-542			18185	13	22-466	4-801	18257	8	21-850	7-576	18329	15	7-125	10-658
0-938 21-022	18062	8	20-314	24-822			18186	11	23-414	4-036	18258	8	24-267	7-926	18330	12	8-010	10-625
1-692 21-022	18063	23	20-618	24-598			18187	8	25-728	4-501	18259	11	24-777	7-894	18331	19	8-646	10-113
4-883 21-022	18064	10	22-168	24-777	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18188	54	25-864	4-634	18260	8	25-375	7-109	18332	8	8-872	10-704
6-400 21-022	18065	12	23-574	24-050			18189	8	0-356	5-084	18261	11	2-876	8-594	18333	8	9-238	10-662
6-566 21-022	18066	14	24-818	24-627			18190	8	1-412	5-933	18262	8	5-225	8-916	18334	8	9-566	10-372
6-957 21-022	18067	19	25-698	24-333			18191	8	2-343	5-877	18263	39	6-143	8-721	18335	9	10-948	10-046
7-028 21-022	18068	23	1-051	25-063	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18192	11	5-930	5-654	18264	21	6-222	8-216	18336	8	13-254	10-992
7-039 21-022	18069	50	1-148	25-913			18193	8	6-074	5-975	18265	52	6-822	8-268	18337	20	13-347	10-166
8-234 21-022	18070	8	2-013	25-578			18194	8	6-366	5-506	18266	8	7-352	8-126	18338	12	14-408	10-560
8-515 21-022	18071	8	7-898	25-979			18195	8	7-150	5-577	18267	9	8-283	8-936	18339	8	14-552	10-884
8-579 21-022	18072	17	9-717	25-383	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18196	8	7-259	5-814	18268	40	8-363	8-658	18340	8	14-582	10-471
9-458 21-022	18073	9	10-091	25-870			18197	20	7-656	5-755	18269	10	8-608	8-522	18341	8	14-591	10-832
11-539 21-022	18074	21	10-456	25-574			18198	9	11-112	5-476	18270	10	8-780	8-127	18342	18	14-879	10-890
11-780 21-022	18075	32	13-018	25-083			18199	8	11-620	5-706	18271	8	9-650	8-044	18343	12	15-174	10-236
12-433 21-022	18076	8	13-405	25-539	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18200	22	12-747	5-624	18272	8	11-064	8-390	18344	8	15-238	10-492
12-662 21-022	18077	8	13-432	25-266			18201	8	13-376	5-551	18273	8	12-154	8-888	18345	8	15-248	10-452
13-700 21-022	18078	16	14-862	25-320			18202	17	13-840	5-614	18274	8	12-475	8-106	18346	8	15-547	10-931
17-871 21-022	18079	10	15-070	25-316			18203	8	14-425	5-570	18275	8	12-834	8-825	18347	10	15-852	10-704
17-871 21-022	18080	8	15-275	25-856	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18204	8	17-249	5-723	18276	8	15-646	8-503	18348	8	19-000	10-130
18-614 21-022	18081	11	16-061	25-870			18205	8	17-317	5-922	18277	8	16-562	8-782	18349	9	22-150	10-606
18-752 21-022	18082	27	18-738	25-228			18206	18	17-063	5-676	18278	8	17-061	8-580	18350	8	22-929	10-860
19-171 21-022	18083	23	18-994	25-096			18207	26	20-082	5-614	18279	9	17-161	8-798	18351	15	24-225	10-836
19-401 21-022	18084	29	19-966	25-800	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18208	12	20-614	5-722	18280	8	17-804	8-380	18352	10	24-709	10-660
19-562 21-022	18085	9	20-034	25-500			18209	40	20-920	5-046	18281	40	18-164	8-538	18353	16	2-614	11-750
20-853 21-022	18086	80	20-165	25-714			18210	23	21-092	5-822	18282	8	18-064	8-138	18354	8	2-886	11-926
21-398 21-022	18087	8	20-616	25-488	R.A. 7 <sup>h</sup> 20 <sup>m</sup> Plate 442; 1915 Jan. 12. Provisional Constants. A B C -01746 +01339 -01428 D E F -01324 -01788 +3115 Mag.=16.3-1.10√d	No. d x y	18211	8	21-894	5-205	18283	94	20-274	8-856	18355	8	3-122	

18372	8	12-620	11-914	18444	8	25-541	13-766	18516	8	23-754	15-566	18588	8	21-286	17-360	18660	8	23-246	19-699
18373	30	13-175	11-537	18445	23	2-236	14-613	18517	19	24-321	15-816	18589	11	21-735	17-674	18661	8	24-864	19-032
18374	8	14-420	11-351	18446	8	2-924	14-642	18518	8	24-958	15-042	18590	10	21-938	17-582	18662	8	24-986	19-556
18375	10	14-468	11-448	18447	8	3-242	14-074	18519	8	25-136	15-037	18591	24	22-873	17-866	18663	20	25-594	19-644
18376	8	14-506	11-476	18448	12	4-786	14-363	18520	9	25-630	15-882	18592	8	23-269	17-368	18664	8	0-817	20-326
18377	11	15-002	11-372	18449	8	5-714	14-802	18521	8	25-759	15-941	18593	12	23-523	17-000	18665	8	0-821	20-850
18378	8	15-158	11-304	18450	14	5-726	14-086	18522	13	0-656	16-624	18594	12	0-002	18-695	18666	12	2-163	20-580
18379	8	16-410	11-021	18451	20	5-902	14-756	18523	8	0-808	16-762	18595	8	0-094	18-100	18667	8	4-268	20-350
18380	72	17-502	11-944	18452	8	5-946	14-886	18524	8	1-770	16-434	18596	21	0-654	18-373	18668	12	5-048	20-168
18381	8	18-489	11-732	18453	8	6-391	14-775	18525	8	3-867	16-819	18597	8	0-927	18-814	18669	8	6-531	20-869
18382	20	18-919	11-906	18454	8	6-818	14-326	18526	12	3-890	16-301	18598	12	2-402	18-180	18670	8	6-700	20-059
18383	8	20-171	11-332	18455	8	7-680	14-885	18527	10	4-588	16-335	18599	24	2-756	18-912	18671	9	7-653	20-906
18384	8	20-764	11-770	18456	8	9-096	14-960	18528	8	5-583	16-980	18600	35	4-212	18-126	18672	8	8-974	20-654
18385	20	21-828	11-034	18457	38	9-950	14-824	18529	20	5-942	16-364	18601	8	4-316	18-330	18673	10	10-594	20-505
18386	8	22-238	11-778	18458	8	10-103	14-228	18530	8	7-851	16-326	18602	8	5-403	18-429	18674	8	11-660	20-924
18387	8	24-882	11-943	18459	13	11-632	14-476	18531	8	8-561	16-418	18603	8	8-316	18-599	18675	11	11-761	20-306
18388	12	25-200	11-778	18460	10	12-102	14-878	18532	8	8-890	16-352	18604	8	9-273	18-668	18676	12	12-814	20-984
18389	9	1-316	12-233	18461	87	12-437	14-736	18533	8	9-211	16-862	18605	19	9-430	18-476	18677	8	13-846	20-815
18390	12	1-060	12-222	18462	8	12-601	14-402	18534	8	11-604	16-164	18606	8	9-653	18-540	18678	33	14-830	20-548
18391	11	3-852	12-672	18463	8	13-306	14-270	18535	9	13-321	16-388	18607	8	10-253	18-290	18681	10	16-889	20-327
18392	8	4-495	12-662	18464	8	13-448	14-437	18536	16	14-248	16-266	18608	20	10-402	18-032	18682	8	17-554	20-764
18393	23	4-836	12-681	18465	18	15-744	14-274	18537	8	14-277	16-451	18609	8	10-272	18-227	18683	8	17-738	20-616
18394	8	4-882	12-366	18466	9	16-266	14-837	18538	8	17-235	16-826	18610	8	10-419	18-289	18684	8	17-967	20-979
18395	10	8-067	12-457	18467	82	17-366	14-790	18539	8	18-898	16-814	18611	8	13-798	18-841	18685	18	18-214	20-637
18396	15	9-204	12-309	18468	12	18-420	14-697	18540	10	20-624	16-346	18612	8	14-933	18-290	18686	11	19-066	20-730
18397	12	9-360	12-291	18469	12	18-655	14-590	18541	8	20-805	16-384	18613	27	13-869	18-541	18687	14	19-984	20-712
18398	10	9-670	12-202	18470	8	21-213	14-159	18542	8	20-830	16-369	18614	10	16-607	18-501	18688	14	22-054	20-198
18399	8	9-758	12-221	18471	8	21-422	14-122	18543	8	21-402	16-062	18615	8	16-072	18-985	18689	35	22-820	20-805
18400	11	9-776	12-328	18472	15	22-083	14-252	18544	86	21-652	16-225	18616	12	17-082	18-751	18690	20	22-928	20-753
18401	8	9-803	12-920	18473	12	22-719	14-819	18545	42	21-766	16-276	18617	8	17-516	18-571	18691	8	23-115	20-556
18402	9	11-337	12-692	18474	8	23-439	14-835	18546	8	21-786	16-100	18618	8	18-218	18-438	18692	8	23-604	20-275
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21290	9	19-217	17-																



R.A. 7 <sup>h</sup> 52 <sup>m</sup>		21657		21658		21659		21660		21661		21662		21663		21664		21665		21666		21667		21668		21669		21670		21671		21672		21673		21674		21675		21676		21677		21678		21679		21680		21681		21682		21683		21684		21685		21686		21687		21688		21689		21690		21691		21692		21693		21694		21695		21696		21697		21698		21699		21700		21701		21702		21703		21704		21705		21706		21707		21708		21709		21710		21711		21712		21713		21714		21715		21716		21717		21718		21719		21720		21721		21722		21723		21724		21725		21726		21727		21728		21729		21730		21731		21732		21733		21734		21735		21736		21737		21738		21739		21740		21741		21742		21743		21744		21745		21746		21747		21748		21749		21750		21751		21752		21753		21754		21755		21756		21757		21758		21759		21760		21761		21762		21763		21764		21765		21766		21767		21768		21769		21770		21771		21772		21773		21774		21775		21776		21777		21778		21779		21780		21781		21782		21783		21784		21785		21786		21787		21788		21789		21790		21791		21792		21793		21794		21795		21796		21797		21798		21799		2180
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										R.A. 8 <sup>h</sup> 0 <sup>m</sup>									
										Plate 484; 1915 Feb. 12									
										Provisional Constants.									
										A B C									
										-01765 +00226 -0635									
										D E F									
										-00224 -01788 +0199									
										Mag. = 15.8 - 1.10√d									
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21945	31	20-635	13-555	22017	42	22-426	16-717	22089	8	25-608	19-551	22161	39	19-556	22-584				
21946	21	21-510	13-906	22018	12	24-158	16-730	22090	22	0-236	20-528	22162	8	20-214	22-739				
21947	37	21-759	13-230	22019	17	24-790	16-038	22091	18	0-281	20-246	22163	8	21-100	22-775				
21948	11	22-113	13-076	22020	8	25-735	16-750	22092	9	2-168	20-253	22164	13	22-576	22-084				
21949	12	23-328	13-366	22021	9	0-126	17-738	22093	8	2-768	20-026	22165	11	24-533	22-283				
21950	23	24-272	13-470	22022	12	0-542	17-594	22094	9	3-133	20-376	22166	8	25-384	22-576				
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21959	10	10-686	14-001	22031	8	5-762	17-430	22103	8	9-508	20-714	22175	21	10-252	23-935				
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21961	12	11-252	14-800	22033	9	6-528	17-214	22105	20	11-495	20-778	22177	9	12-404	23-982				
21962	9	13-030	14-684	22034	15	6-672	17-159	22106	8	11-856	20-233	22178	10	12-862	23-258				
21963	10	13-359	14-782	22035	8	6-768	17-970	22107	8	11-859	20-039	22179	33	14-430	23-171				
21964	11	13-609	14-844	22036	10	7-138	17-962	22108	8	11-916	20-124	22180	8	15-681	23-550				
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21966	22	14-772	14-846	22038	8	9-278	17-302	22110	31	13-226	20-176	22182	10	17-345	23-840				
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21968	9	16-274	14-755	22040	13	11-034	17-576	22112	8	14-585	20-348	22184	8	19-900	24-022				
21969	8	16-321	14-976	22041	33	16-748	17-406	22113	8	14-880	20-351	22185	8	20-780	23-111				
21970	8	16-900	14-271	22042	58	18-800	17-449	22114	10	15-225	20-660	22186	10	20-865	23-664				
21971	11	17-865	14-604	22043	8	20-250	17-426	22115	34	15-304	20-047	22187	13	24-638	23-122				
21972	8	18-276	14-918	22044	22	22-126	17-736	22116	23	16-610	20-430	22188	12	25-624	23-105				
21973	38	19-698	14-811	22045	22	22-849	17-033	22117	8	18-662	20-594	22189	8	25-650	23-367				
21974	26	19-806	14-726	22046	8	23-513	17-481	22118	16	23-206	20-800	22190	31	25-944	23-682				
21975	8	20-592	14-626	22047	11	25-112	17-088	22119	25	23-767	20-030	22191	8	0-592	24-568				
21976	8	21-132	14-196	22048	8	0-964	18-172	22120	8	23-823	20-348	22192	9	0-683	24-478				
21977	9	21-924	14-324	22049	26	1-616	18-650	22121	17	23-932	20-166	22193	24	1-640	24-288				
21978	130	22-268	14-274	22050	22	3-712	18-026	22122	11	0-574	21-616	22194	26	3-374	24-088				
21979	24	23-428	14-675	22051	8	4-140	18-209	22123	8	2-234	21-060	22195	8	3-426	24-548				
21980	9	23-753	14-165	22052	8	6-422	18-785	22124	8	3-090	21-314	22196	13	4-318	24-412				
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21982	37	25-936	14-334	22054	8	10-504	18-750	22126	10	5-185	21-502	22198	8	9-016	24-700				
21983	8	0-663	15-940	22055	8	12-425	18-573	22127	8	8-325	21-717	22199	13	9-240	24-245				
21984	9	2-841	15-296	22056	43	13-884	18-274	22128	8	8-200	21-984	22200	8	11-388	24-628				
21985	9	3-412	15-864	22057	9	14-972	18-564	22129	40	8-532	21-605	22201	8	13-458	24-938				
21986	10	3-934	15-849	22058	24	15-250	18-272	22130	40	8-572	21-564	22202	8	14-178	24-364				
21987	8	4-600	15-854	22059	10	16-255	18-378	22131	34	10-778	21-695	22203	12	15-133	24-934				
21988	12	5-398	15-862	22060	12	20-210	18-368	22132	11	11-407	21-226	22204	10	16-144	24-894				
21989	24	8-330	15-364	22061	46	21-446	18-049	22133	46	12-744	21-706	22205	10	16-194	24-894				
21990	9	11-323	15-946	22062	8	22-218	18-445	22134	12	16-173	21-461	22206	13	16-296	24-694				
21991	11	15-870	15-704	22063	9	23-766	18-822	22135	10	18-822	21-724	22207	56	17-216	24-617				
21992	12	16-847	15-900	22064	12	24-680	18-115	22136	15	20-210	21-770	22208	11	22-941	24-622				
21993	10	18-896	15-623	22065	8	25-426	18-774	22137	8	20-250	21-195	22209	11	23-264	24-860				
21994	9	21-244	15-266	22066	8	0-487	19-497	22138	10	20-570	21-683	22210	14	24-506	24-078				
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21996	9	24-134	15-274	22068	14	1-836	19-208	22140	12	22-314	21-011	22212	9	4-805	25-422				
21997	12	24-764	15-732	22069	9	3-795	19-705	22141	8	22-513	21-084	22213	12	7-974	25-359				
21998	12	25-223	15-674	22070	9	4-794	19-427	22142	16	25-000	21-087	22214	8	8-295	25-900				
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22000	11	0-767	16-884	22072	8	6-471	19-974	22144	8	1-147	22-123	22216	26	10-986	25-910				
22001	34	2-064	16-868	22073	8	6-691	19-859	22145	31	3-430	22-980	22217	16	11-154	25-818				
22002	8	3-668	16-146	22074	8	8-770	19-845	22146	8	5-566	22-368	22218	18	11-284	25-426				
22003	9	5-116	16-188	22075	8	9-200	19-020	22147	12	3-970	22-937	22219	13	12-395	25-190				
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R.A. 8<sup>h</sup> 0<sup>m</sup>

1911; 1915 Feb.

B C

15-8-1107

B C

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d z

22 0-190

14 0-801

22 1-733

22 2-452

8 2-568

8 4-760

8 10-116

8 11-304

8 11-592

37 11-874

11 12-664

8 14-020

8 14-064

21 14-530

8 16-228

8 16-264

18 18-188

8 18-668

11 19-343

8 25-028

12 25-130

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8 8-964

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7 7-595

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8 8-552

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8 12-234

8 12-472

8 15-506

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20 20-438

21 21-214

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23 23-254

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25 25-188

25 25-520

25 25-994

0-158

0-651

1-828

22306	10	3-670	2-400	22378	8	0-648	5-454	22450	12	19-946	7-026	22522	22	12-115	10-177	22594	8	9-006	13-084
22307	19	4-013	2-019	22379	24	1-635	5-390	22451	30	21-030	7-961	22523	8	12-399	10-285	22595	12	9-498	13-259
22308	10	4-046	2-014	22380	29	1-955	5-686	22452	30	21-867	7-796	22524	10	13-043	10-947	22596	19	10-234	13-448
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22310	9	7-681	2-266	22382	8	2-978	5-662	22454	10	24-710	7-936	22526	38	16-085	10-824	22598	8	12-887	13-119
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22318	12	16-735	2-726	22390	8	8-535	5-272	22462	10	4-542	8-580	22534	8	1-032	11-772	22606	38	16-026	13-088
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22322	9	20-920	2-456	22394	9	16-932	5-198	22466	23	11-975	8-655	22538	11	3-709	11-090	22610	26	20-554	13-010
22323	12	24-154	2-516	22395	10	19-596	5-417	22467	21	13-170	8-246	22539	8	4-132	11-218	22611	27	23-940	13-940
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22326	11	3-202	3-424	22398	8	21-557	5-368	22470	28	18-624	8-025	22542	8	7-462	11-231	22614	26	1-700	14-506
22327	8	4-346	3-984	22399	13	22-456	5-966	22471	8	21-428	8-514	22543	16	7-910	11-078	22615	25	3-490	14-371
22328	8	6-072	3-482	22400	24	22-615	5-535	22472	9	22-096	8-434	22544	8	8-055	11-471	22616	9	5-103	14-860
22329	8	6-863	3-482	22401	8	23-283	5-600	22473	12	22-194	8-588	22545	8	8-268	11-494	22617	17	7-426	14-568
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22344	8	17-405	3-665	22416	21	13-204	6-750	22488	8	9-512	9-235	22560	17	4-534	12-192	22632	16	23-210	14-630
22345	10	18-088	3-276	22417	21	13-740	6-137	22489	10	9-712	9-235	22561	8	5-070	12-200	22633	8	23-306	14-555
22346	8	20-638	3-814	22418	36	14-087	6-932	22490	8	10-768	9-567	22562	8	5-619	12-065	22634	10	23-465	14-314
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22349	8	21-842	3-234	22421	21	15-108	6-826	22493	9	14-060	9-796	22565	9	7-743	12-131	22637	12	1-184	15-751
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22352	8	24-852	3-906	22424	17	25-177	6-545	22496	9	16-200	9-088	22568	8	10-418	12-597	22640	9	2-785	15-718
22353	26	25-875	3-854	22425	8	0-528	7-232	22497	8	17-289	9-926	22569	8	12-039	12-598	22641	32	5-630	15-525
22354	8	1-482	4-020	22426	25	0-676	7-756	22498	8	18-689	9-818	22570	8	12-066	12-432	22642	8	7-268	15-332
22355	10	4-162	4-563	22427	8	1-508	7-921	22499	13	19-823	9-535	22571	14	14-524	12-225	22643	8	8-735	15-848
22356	40	5-691	4-800	22428	8	2-628	7-432	22500	18	20-582	9-198	22572	18	16-714	12-347	22644	11	14-344	15-536
22357	8	6-299	4-914	22429	8	4-082	7-630	22501	36	21-272	9-686	22573	10	17-090	12-210	22645	8	19-929	15-048
22358	38	10-800	4-340	22430	17	4-514	7-803	22502	8	21-474	9-810	22574	16	18-679	12-250	22646	14		

R.A. 8 <sup>h</sup> 8 <sup>m</sup>										Plate 478: 1915 Feb. 11.									
Provisional Constants.										A B C									
D E F										-0.0359 -0.0372 -1581									
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22667	34	15-578	16-984	22739	31	25-708	10-471	22811	8	22-194	22-248	22958	19	9-690	3-040	23030	8	9-418	9-418
22668	8	16-324	16-576	22740	10	0-800	20-850	22812	31	22-205	22-143	22959	11	10-366	3-844	23031	8	11-622	11-622
22669	8	16-616	16-408	22741	12	1-356	20-078	22813	10	22-954	22-204	22960	8	10-990	3-928	23032	11	11-948	11-948
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22671	8	20-400	16-940	22743	10	1-519	22-318	22815	10	22-248	23-166	22962	8	13-395	3-492	23034	8	18-388	18-388
22672	9	24-827	16-956	22744	8	4-700	20-040	22816	8	3-234	23-140	22963	8	16-730	3-128	23035	10	24-344	24-344
22673	11	0-420	17-088	22745	11	6-358	20-100	22817	8	3-259	23-000	22964	12	17-383	3-740	23036	9	1-841	1-841
22674	8	2-684	17-130	22746	9	6-362	20-833	22818	16	3-555	23-710	22965	14	17-384	3-410	23037	9	2-145	2-145
22675	9	3-500	17-164	22747	12	7-262	20-460	22819	8	3-946	23-981	22966	9	17-940	3-464	23038	10	4-303	4-303
22676	42	4-638	17-114	22748	18	8-076	20-307	22820	8	5-001	23-210	22967	10	18-718	3-500	23039	8	5-251	5-251
22677	13	4-663	17-556	22749	8	9-208	20-998	22821	8	8-017	23-490	22968	28	19-576	3-568	23040	9	6-031	6-031
22678	8	5-636	17-214	22750	9	9-520	20-000	22822	8	9-842	23-000	22969	9	24-225	3-918	23041	11	7-455	7-455
22679	23	6-159	17-547	22751	8	10-151	20-159	22823	8	10-903	23-004	22970	10	24-900	3-568	23042	11	8-374	8-374
22680	8	6-759	17-876	22752	8	10-803	20-450	22824	8	13-640	23-432	22971	22	0-198	4-870	23043	10	9-096	9-096
22681	8	8-285	17-864	22753	8	14-822	20-831	22825	8	15-914	23-459	22972	8	1-730	4-096	23044	10	11-355	11-355
22682	16	8-377	17-858	22754	9	15-436	20-470	22826	8	17-637	23-034	22973	19	4-684	4-715	23045	8	11-581	11-581
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22685	13	14-374	17-884	22757	8	19-694	20-028	22829	12	22-300	23-882	22976	8	9-953	4-888	23048	17	15-281	15-281
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22687	44	15-332	17-110	22759	13	25-897	20-310	22831	8	22-687	23-780	22978	10	10-335	4-254	23050	14	18-671	18-671
22688	8	15-648	17-242	22760	8	0-302	21-016	22832	8	23-630	23-134	22979	8	10-674	4-993	23051	14	19-171	19-171
22689	8	15-706	17-305	22761	13	3-197	21-120	22833	8	24-217	23-479	22980	20	10-776	4-121	23052	10	21-855	21-855
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22691	15	17-798	17-496	22763	15	4-529	21-324	22835	8	0-557	24-676	22982	8	13-358	4-840	23054	10	22-110	22-110
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22700	8	13-47	18-874	22772	9	8-650	21-087	22844	9	20-138	24-246	22991	8	24-911	4-894	23063	8	2-090	2-090
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22702	8	4-720	18-344	22774	23	10-550	21-140	22846	14	24-750	24-244	22993	10	1-516	5-444	23065	8	4-003	4-003
22703	8	9-060	18-919	22775	14	11-659	21-014	22847	8	24-957	24-031	22994	18	1-896	5-803	23066	16	4-111	4-111
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22711	23	17-061	18-032	22783	9	20-798	21-036	22855	8	5-055	25-835	23002	9	10-324	5-763	23074	12	12-581	12-581
22712	8	17-730	18-034	22784	8	21-477	21-381	22856	16	8-524	25-344	23003	9	10-330	5-129	23075	8	16-151	16-151
22713	18	18-518	18-630	22785	9	22-043	21-108	22857	8	10-394	25-802	23004	9	10-565	5-164	23076	8	20-788	20-788
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22715	8	20-285	18-158	22787	8	15-276	21-476	22859	8	12-098	25-028	23006	10	12-117	5-450	23078	9	22-244	22-244
22716	8	23-074	18-110	22788	8	0-176	22-142	22860	46	14-900	25-919	23007	8	13-490	5-668	23079	14	22-911	22-911
22717	8	23-863	18-481	22789	8	1-306	22-004	22861	35	16-644	25-030	23008	8	13-732	5-706	23080	8	23-221	23-221
22718	8	1-959	19-087	22790	9	2-136	22-325	22862	8	18-122	25-718	23009	8	15-056	5-512	23081	10	23-605	23-605
22719	8	2-710	19-062	22791	8	2-416	22-832	22863	29	19-480	25-771	23010	24	15-782	5-260	23082	8	25-202	25-202
22720	8	3-194	19-590	22792	8	2-991	22-620	22864	8	20-823	25-109	23011	35	16-672	5-212	23083	14	25-202	25-202
22721	8	5-872	19-613	22793	8	3-260	22-349	22865	14	22-148	25-590	23012	11	17-052	5-354	23084	8	5-181	5-181
22722	8	7-619	19-896	22794	4	3-406	22-948	22866	8	22-154	25-914	23013	11	18-076	5-734	23085	8	5-181	5-181
22723	9	7-706	19-678	22795	8	4-721	22-903	22867	8	23-448	25-690	23014	13	18-078	5-230	23086	10	6-311	6-311
22724	8	7-820	19-666	22796	9	5-823	22-670	22868	8</										

( 69 )



R.A. 8<sup>h</sup> 16<sup>m</sup>

Plate 456: 1915 Feb. 7.

Provisional Constants.

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D E F

-0.0543 -0.1786 +0.275

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233517 8 5.432 1.094

233518 18 5.848 1.145

233519 8 6.850 1.644

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233522 14 16.114 1.554

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233546 9 23.128 3.285

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233549 8 2.420 4.979

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233567 19 6.270 5.745

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233624 9 14.600 7.358

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23657 10 7.197 9.170

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23659 9 9.022 9.780

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23664 10 12.370 9.734

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23668 18 18.420 9.394

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23701 12 20.818 10.492

23702 8 21.014 10.762

23703 35 22.935 10.704

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23706 10 25.721 10.203

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23708 10 1.476 11.530

23709 9 2.574 11.754

23710 12 3.938 11.086

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8-006	17-27	24520	8	10-274	21-836	24592	8	9-100	25-884	24682	13	12-831	2-863	24754	8	22-412	6-274	24826	9	1-536	12-350
9-085	17-27	24521	14	11-544	21-496	24593	20	9-394	25-776	24683	10	14-052	2-234	24755	28	23-240	6-814	24827	8	1-554	12-326
10-910	17-27	24522	12	14-172	21-603	24594	10	10-746	25-206	24684	38	14-809	2-708	24756	30	0-061	7-035	24828	8	4-060	12-324
11-382	17-27	24523	26	16-556	21-666	24595	28	12-087	25-666	24685	8	15-709	2-629	24757	13	2-226	7-718	24829	8	6-200	12-200
14-758	17-27	24524	13	16-616	21-763	24596	36	12-586	25-737	24686	13	16-014	2-356	24758	9	3-004	7-017	24830	8	13-142	12-258
15-574	17-27	24525	34	17-149	21-544	24597	26	13-362	25-107	24687	13	16-016	2-231	24759	23	5-559	7-002	24831	13	15-337	12-050
15-584	17-27	24526	16	19-205	21-274	24598	18	14-586	25-893	24688	8	16-064	2-950	24760	8	5-980	7-520	24832	8	17-248	12-066
15-086	17-27	24527	36	19-458	21-166	24599	30	16-440	25-174	24689	8	16-856	2-000	24761	8	6-457	7-804	24833	9	17-586	12-664
16-094	17-27	24528	37	19-826	21-066	24600	12	17-796	25-516	24690	8	17-404	2-081	24762	8	6-518	7-420	24834	18	18-164	12-050
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20-059	17-27	24531	28	25-077	21-931	24603	28	21-349	25-987	24693	10	23-321	2-832	24765	9	10-222	7-603	24837	8	20-800	12-270
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25-704	17-27	24534	21	1-450	22-654	24606	26	23-404	25-902	24696	8	2-130	3-042	24768	17	24-559	7-218	24840	11	24-275	12-232
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7-786	17-27	24538	8	6-244	22-010	24700	10	5-166	3-311	24772	9	3-280	8-058	24844	57	0-135	13-485	24844	57	0-135	13-485
9-186	17-27	24539	31	6-984	22-494	24701	11	6-098	3-069	24773	12	4-300	8-890	24845	9	1-700	13-740	24845	9	1-700	13-740
11-790	17-27	24540	28	7-808	22-595	24702	8	7-370	3-705	24774	8	4-828	8-048	24846	8	3-940	13-005	24846	8	3-940	13-005
13-165	17-27	24541	28	7-816	22-514	24703	8	13-944	3-255	24775	8	5-578	8-630	24847	8	4-549	13-291	24847	8	4-549	13-291
13-517	17-27	24542	34	8-900	22-040	24704	8	16-986	3-268	24776	10	6-447	8-884	24848	9	7-082	13-832	24848	9	7-082	13-832
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20-026	17-27	24546	26	16-016	22-803	24708	8	19-497	3-836	24780	8	21-232	8-507	24852	24	10-366	13-040	24852	24	10-366	13-040
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7-564	17-27	24569	40	23-362	23-314	24731	26	7-808	5-108	24803	10	15-688	10-043	24875	8	20-478	14-325	24875	8	20-478	14-325
8-388	17-27	24570	26	25-562	23-586	24732	8	9-042	5-295	24804	10	19-436	10-712	24876	8	20-708	14-823	24876	8	20-708	14-823
9-382	17-27	24571	12	2-494	24-066	24733	13	9-900	5-128	24805	11	21-690	10-042	24877	27	20-					

24893	10	18°54'	15°50'	24965	10	22°50'	10°09'	25037	23	14°53'	25°05'	25085	17	13°38'	2°09'	25157	9	5°885	8°460
24894	8	20°26'	15°26'	24966	11	25°25'	10°08'	25038	8	14°73'	25°235	25086	8	15°80'	2°09'	25158	11	10°234	8°042
24895	8	21°15'	15°02'	24967	9	25°28'	10°16'	25039	8	15°81'	25°007	25087	18	18°58'	2°556	25159	35	12°249	8°554
24896	10	21°56'	15°42'	24968	8	25°48'	10°11'	25040	8	16°30'	25°276	25088	12	20°15'	2°564	25160	10	12°678	8°404
24897	8	22°22'	15°32'	24969	30	1°056	20°025	25041	8	16°50'	25°725	25089	38	21°04'	2°554	25161	9	14°120	8°976
24898	28	22°08'	15°05'	24970	10	1°042	20°867	25042	8	16°08'	25°518	25090	10	3°202	3°114	25162	11	14°218	8°287
24899	9	24°73'	15°58'	24971	31	2°328	20°553	25043	8	20°26'	25°067	25091	27	8°552	3°658	25163	8	14°380	8°134
24900	33	24°70'	15°00'	24972	8	7°220	20°232	25044	22	21°675	25°250	25092	8	14°418	3°654	25164	8	18°670	8°779
24901	8	24°91'	15°594	24973	58	7°842	20°200	25045	22	22°581	25°066	25093	26	18°577	3°825	25165	18	10°358	8°279
24902	8	25°709	15°541	24974	18	8°554	20°022	25046	8	22°694	25°325	25094	8	20°694	3°024	25166	8	19°371	8°909
24903	8	5°334	10°416	24975	8	17°603	20°066	25047	16	22°713	25°354	25095	8	22°918	3°732	25167	10	19°758	8°214
24904	10	5°870	10°388	24976	8	18°280	20°824	25048	40	24°000	25°724	25096	28	8°608	4°834	25168	45	23°716	8°828
24905	8	6°038	10°638	24977	8	22°382	20°078					25097	27	0°782	4°274	25169	19	23°878	8°350
24906	9	7°002	10°062	24978	27	25°485	20°640					25098	32	10°032	4°000	25170	13	24°942	8°405
24907	8	7°459	10°258	24979	30	2°814	21°800					25099	11	10°410	4°202	25171	39	25°642	8°224
24908	10	7°466	10°885	24980	13	8°019	21°950					25100	24	11°500	4°748	25172	8	0°615	9°326
24909	8	9°978	10°890	24981	40	9°530	21°065					25101	11	13°439	4°199	25173	8	2°138	9°859
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24911	8	10°415	10°680	24983	22	13°518	21°224					25103	9	13°746	4°718	25175	11	5°532	9°467
24912	11	10°580	10°478	24984	8	14°079	21°513					25104	8	16°524	4°804	25176	8	8°818	9°192
24913	8	20°124	10°682	24985	25	15°586	21°322					25105	8	16°995	4°804	25177	8	10°204	9°624
24914	8	22°018	10°682	24986	23	19°158	21°056					25106	9	21°556	4°666	25178	28	10°300	9°058
24915	8	23°598	10°072	24987	21	21°465	21°149					25107	15	1°048	5°767	25179	10	12°348	9°601
24916	8	24°354	10°914	24988	8	22°140	21°029					25108	8	3°711	5°830	25180	9	15°548	9°400
24917	10	3°514	17°014	24989	8	22°800	21°346					25109	11	5°946	5°428	25181	11	12°338	9°621
24918	17	5°319	17°081	24990	8	25°928	21°314					25110	20	7°285	5°608	25182	20	13°988	9°706
24919	40	8°062	17°602	24991	8	0°764	22°463					25111	21	7°302	5°343	25183	8	18°093	9°920
24920	34	8°504	17°938	24992	40	0°786	22°931					25112	8	8°157	5°299	25184	10	22°530	9°950
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24923	19	12°184	17°330	24995	8	15°308	22°932					25115	8	14°746	5°566	25187	10	2°870	10°989
24924	11	13°076	17°730	24996	8	15°953	22°524					25116	8	15°284	5°809	25188	8	2°600	10°713
24925	8	13°909	17°774	24997	8	17°904	22°923					25117	10	15°360	5°648	25189	8	2°713	10°944
24926	8	13°746	17°714	24998	13	19°206	22°284					25118	23	16°002	5°920	25190	8	3°680	10°325
24927	8	18°199	17°620	24999	41	24°055	22°810					25119	8	18°428	5°872	25191	12	10°209	10°148
24928	8	18°754	17°152	25000	10	24°708	22°714					25120	8	19°018	5°222	25192	8	11°357	10°964
24929	8	19°020	17°884	25001	11	25°784	22°743					25121	30	21°502	5°254	25193	12	13°219	10°466
24930	8	19°116	17°274	25002	26	1°160	23°591					25122	8	23°823	5°135	25194	8	15°222	10°763
24931	30	19°594	17°072	25003	11	3°364	23°847					25123	34	0°586	6°790	25195	16	15°826	10°282
24932	8	20°022	17°202	25004	8	8°394	23°844					25124	23	5°794	6°984	25196	8	16°797	10°462
24933	14	20°843	17°120	25005	8	8°447	23°995					25125	8	6°216	6°452	25197	8	19°521	10°793
24934	11	21°614	17°394	25006	11	8°819	23°013					25126	8	6°350	6°430	25198	40	0°328	11°499
24935	9	22°404	17°781	25007	12	12°137	23°826					25127	8	6°038	6°732	25199	12	2°536	11°308
24936	8	0°200	18°020	25008	8	13°922	23°849					25128	12	7°514	6°130	25200	10	7°460	11°943
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24938	35	3°930	18°864	25010	8	17°660	23°972					25130	10	13°095	6°478	25202	9	1°254	12°054
24939	8	4°150	18°122	25011	9	21°600	23°781					25131	9	13°278	6°870	25203	31	1°688	12°268
24940	8	5°474	18°038	25012	40	23°807	23°998					25132	10	13°698	6°976	25204	11	2°132	12°234
24941	19	7°890	18°217	25013	26	24°100	23°316					25133	13	14°334	6°888	25205	52	4°843	12°399
24942	27	7°920	18°441	25014	24	1°610	24°704					25134	8	15°192	6°483	25206	9	4°913	12°557
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24944	9	15°526	18°500	25016	8	4°223	24°934					25136	8	16°844	6°358	25208	8	11°956	12°369
24945	8	16°456	18°810	25017	8	5°220	24°000					25137	9	19°053	6°752	25209	8	12°411	12°120
24946	9	17°086	18°110	25018	8	8°024	24°630					25138	15	21°265	6°530	25210	8	17°276	12°140
24947	9	17°920	18°430	25019	14	11°074	24°805					25139	8	21°386	6°466	25211	10	17°925	12°643
24948	12	18°394	18°552	25020	8	11°494	24°101					25140	17	23°350	6°080	25212	12	18°502	12°087
24949	15	19°306	18°704	25021	8	15°925	24°004					25141	20	24°535	6°686	25213	10	19°656	12°912
24950	40	21°032	18°770	25022	8	18°878	24°951					25142	8	0°204	7°953	25214	11	2°407	13°262
24951	12	22°101	18°300	25023	8	19°126	24°478					25143	18	1°902	7°124	25215	12	6°971	13°384
24952	8	23°076	18°009	25024	11	19°587	24°504					25144	8	2°247	7°666	25216	9	8°628	13°188
24953	8	24°716	18°774	25025	8	24°059	24°086					25145	10	2°380	7°500	25217	8	10°076	13°636
24954	8	4°714	10°011	25026	18	0°125	25°371					25146	10	2°404	7°010	25218	8	13°302	13°223
24955	10	6°042	10°250	25027	15	2°276	25°701					25147	8	8°058	7°347	25219	8	13°300	13°490
24956	8	9°930	10°108	25028	8	2°015	25°638					25148	27	9°191	7°495	25220	8	14°612	13°007
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24962	8	16																	

R.A. 8<sup>h</sup> 43<sup>m</sup>

Plate 462; 1915 Feb. 8.

Provisional Constants.

A B C  
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D E F  
-0.0466 -0.1793 +0.775

Magn. = 15.9 - 1.10√d

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25405 13 16.060 0.901

25406 11 16.100 0.273

25407 8 22.776 0.522

25408 8 23.250 0.727

25409 11 23.324 0.856

25410 8 24.368 0.895

25411 9 24.442 0.752

25412 23 2.977 1.150

25413 13 12.012 1.508

25414 13 13.976 1.496

25415 12 24.556 1.210

25416 95 24.558 1.554

25417 12 0.603 2.174

25418 26 5.614 2.104

25419 10 7.065 2.140

25420 11 11.990 2.266

25421 28 14.296 2.263

25422 26 14.553 2.604

25423 9 18.996 2.706

25424 10 24.529 2.427

25425 8 0.402 3.939

25426 30 10.524 3.773

25427 8 12.736 3.224

25428 8 13.588 3.999

25429 8 18.195 3.076

25430 20 25.042 3.286

25431 11 7.708 4.415

25432 9 12.253 4.208

25433 8 14.456 4.890

25434 9 15.820 4.068

25435 31 17.682 4.502

25436 11 17.807 4.255

25437 9 20.440 4.244

25438 13 4.353 5.816

25439 8 8.473 5.066

25440 8 8.845 5.823

25441 8 9.182 5.853

25442 11 11.930 5.404

25443 12 15.388 5.041

25444 10 17.292 5.942

25445 11 17.310 5.208

25446 8 17.448 5.186

25447 12 21.180 5.410

25448 16 0.832 6.273

25449 15 2.045 6.866

25450 26 6.204 6.995

25451 8 12.087 6.278

25452 9 13.245 6.102

25453 8 13.620 6.043

25454 31 14.380 6.698

25455 11 16.116 6.958

25456 12 18.220 6.804

25457 9 20.014 6.317

25458 10 20.887 6.455

25459 8 23.022 6.384

25460 8 1.054 7.866

25461 8 5.066 7.483

25462 12 10.511 7.736

25463 24 13.110 7.056

25464 22 17.328 7.744

25465 18 24.008 7.783

25466 16 1.466 8.536

25467 15 2.470 8.280

25468 34 3.168 8.302

25469 8 12.014 8.056

25470 9 15.454 8.166

25471 10 17.993 8.149

25472 11 19.447 8.730

25473 46 24.620 8.639

25474 20 9.454 9.340

25475 48 1.246 9.016

25476 8 3.923 9.455

25477 8 4.684 9.138

25478 9 19.039 9.094

25479 13 24.002 9.300

25480 12 0.075 10.155

25481 34 4.717 10.128

25482 8 16.020 10.824

25483 14 17.191 10.826

25484 8 18.617 10.323

25485 10 20.368 10.328

25486 13 20.244 10.317

25487 10 24.745 10.153

25488 4 4.708 11.022

25489 15 8.190 11.349

25490 17 13.982 11.366

25491 7 10.062 11.116

25492 53 20.180 11.300

25493 8 0.528 12.396

25494 29 7.680 12.900

25495 9 8.386 12.556

25496 15 9.945 12.056

25497 20 12.880 12.440

25498 27 13.604 12.711

25499 16 14.483 12.533

25500 11 10.651 12.737

25501 8 19.858 12.818

25502 9 20.381 12.893

25503 8 0.131 12.081

25504 8 2.134 13.650

25505 8 2.310 13.384

25506 22 6.667 13.550

25507 10 10.510 13.670

25508 18 15.749 13.955

25509 11 18.926 13.402

25510 8 22.977 13.220

25511 8 1.385 14.374

25512 8 0.986 14.212

25513 10 14.734 14.004

25514 15 2.960 15.160

25515 11 4.000 15.264

25516 10 4.779 15.550

25517 9 9.620 15.405

25518 70 11.917 15.618

25519 10 12.930 15.330

25520 24 14.250 15.920

25521 10 12.040 16.010

25522 12 13.893 16.694

25523 13 17.684 16.518

25524 36 2.037 17.510

25525 24 6.513 17.836

25526 28 10.804 17.510

25528 10 17.710 17.825

25529 62 19.540 17.856

25530 10 23.958 17.116

25531 11 3.366 18.426

25532 22 4.288 18.525

25533 9 5.836 18.564

25534 9 6.605 18.605

25535 8 6.860 18.597

25536 14 8.272 18.605

25537 10 8.960 18.530

25538 36 17.776 18.473

25539 8 22.076 18.541

25540 11 24.746 18.334

25541 8 0.059 19.344

25542 35 4.720 19.256

25543 8 15.850 19.844

25544 51 1.023 20.632

25545 11 6.794 20.625

25546 14 6.940 20.604

25547 31 20.978 20.032

25548 22 0.453 21.197

25549 10 13.143 21.703

25550 8 13.850 21.710

25551 9 19.446 21.666

25552 15 22.801 21.678

25553 16 23.166 21.166

25554 8 0.612 22.827

25555 16 3.513 22.456

25556 44 5.377 22.780

25557 12 10.677 22.014

25558 9 11.659 22.476

25559 11 21.822 22.695

25560 8 22.454 22.930

25561 8 23.054 22.740

25562 12 0.736 23.913

25563 8 1.157 23.164

25564 10 3.206 23.376

25565 50 5.120 23.006

25566 27 6.185 23.480

25567 9 7.606 23.076

25568 8 14.675 23.106

25569 4 19.685 23.894

25570 34 15.476 23.666

25571 13 20.095 23.848

25572 8 22.698 23.242

25573 10 1.050 24.872

25574 22 5.317 24.082

25575 26 5.508 24.122

25576 14 13.260 24.258

25577 8 13.527 24.712

25578 8 14.187 24.118

25579 12 22.820 24.302

25580 36 1.756 25.168

25581 11 6.740 25.121

25582 14 12.031 25.849

25583 9 13.490 25.375

25584 10 14.209 25.278

25585 20 17.337 25.244

25586 8 18.413 25.144

25587 28 19.917 25.818

25588 33 23.730 25.947

25589 31 24.475 25.037



R.A. 8<sup>h</sup> 56<sup>m</sup>

Plate 489 : 1915 Feb. 14

### Provisional Constants.

A	B	C
-0.01748	+0.00414	-0.1045

D	E	F
-00431	-01788	+0476

$$Ma_{q.} = 15.9 - 1.10\sqrt{d}$$

No.	d	x	y	25671	11	12-672	10-090	25744*	47	4-306	21-456	25821	12	25-468	1-832	25893	8	13-723	8-913
25601	8	0-765	0-937	25672	8	21-521	10-031	25744	23	5-056	21-456	25821	12	25-468	1-832	25893	8	13-723	8-913
25602	8	1-886	0-818	25673	11	21-746	10-799	25745	15	6-005	21-890	25822	10	7-668	2-202	25894	12	14-246	8-454
25603	8	4-550	0-16	25674	23	24-754	10-444	25746	13	15-240	21-890	25823	11	8-678	2-842	25895	16	15-179	8-358
25604*	36	4-900	0-150	25675	14	25-063	10-034	25747	15	23-464	21-652	25824	8	13-226	2-288	25896	17	18-043	8-558
25605*	43	6-972	0-608	25676	8	25-150	10-798	25748	13	23-475	21-564	25825	12	14-073	2-676	25897	8	18-376	8-999
25606	27	8-094	0-766	25677	8	12-316	11-844	25749*	100	10-246	22-406	25826	24	18-362	2-261	25898	8	19-152	8-420
25607	12	19-288	0-533	25678	9	16-121	11-118	25750	13	10-601	22-732	25828	26	24-767	2-246	25900	12	21-300	8-688
25608	8	19-384	0-490	25679	23	17-299	11-136	25751	8	20-938	22-378	25829	8	2-554	3-266	25901	12	23-059	8-404
25609	8	22-562	0-871	25680	16	19-686	11-498	25752	8	7-498	23-374	25830	8	16-823	3-884	25902	11	0-031	9-754
25610	18	22-570	0-384	25681	8	22-345	11-141	25753*	28	12-479	23-348	25831	11	17-291	3-306	25903	12	2-734	9-710
25611	19	22-982	0-016	25682	8	23-257	11-142	25754	17	12-974	23-458	25832	8	21-276	3-848	25904	9	9-300	9-493
25612	28	25-878	0-266	25683	13	25-738	11-009	25755*	60	14-421	23-660	25833	21	21-365	3-215	25905*	22	11-278	9-022
25613*	69	1-997	1-626	25684	12	25-890	11-460	25756	52	25-017	23-639	25834	28	21-732	3-354	25906	8	16-086	9-702
25614	9	2-002	1-274	25685	23	10-620	12-900	25757	12	0-505	24-391	25835	8	21-914	3-169	25907	8	16-208	9-100
25615	13	8-612	1-500	25686	8	10-938	12-818	25758	9	2-387	24-378	25836	8	23-728	3-794	25908	8	16-683	9-175
25616*	29	20-388	1-866	25687*	44	13-240	12-235	25759	8	4-014	24-065	25837	14	24-628	3-687	25909	19	21-638	9-922
25617	13	20-592	1-376	25688	12	19-244	12-745	25760	8	4-995	24-183	25838	8	25-040	3-774	25910	10	22-150	9-027
25618	12	22-182	1-888	25689	19	21-661	12-760	25761	17	5-474	24-937	25839	23	0-330	4-482	25911	8	25-728	9-094
25619	10	1-985	2-533	25690	12	24-052	12-618	25762	8	5-653	24-191	25840	18	0-640	4-500	25912	10	25-865	9-568
25620	17	7-788	2-463	25691	8	0-543	13-310	25763	9	9-226	24-592	25841	17	5-935	4-158	25913	8	2-044	10-824
25621	10	11-228	2-573	25692*	21	16-928	13-340	25764	11	14-361	24-191	25842	17	6-984	4-480	25914	20	2-356	10-471
25622	8	12-018	2-280	25693	8	20-040	13-008	25765	21	20-221	24-584	25843	10	13-368	4-520	25915	13	2-663	10-063
25623	11	16-694	2-530	25694	10	20-681	13-438	25766	11	20-410	24-508	25844*	24	14-030	4-352	25916	10	2-757	10-824
25624*	60	21-466	2-134	25695	13	24-124	13-935	25767	16	21-222	24-516	25845	8	18-727	4-206	25917	8	4-172	10-670
25625*	19	21-650	2-914	25696	14	4-028	14-164	25768	33	2-175	25-704	25846	8	20-674	4-552	25918*	54	7-986	10-384
25626	20	2-506	3-352	25697	16	5-016	14-331	25769	8	9-227	25-166	25847	8	23-508	4-387	25919	10	12-714	10-590
25627	9	3-594	3-185	25698	15	6-439	14-786	25770	9	11-016	25-096	25848	14	25-712	4-600	25920	17	12-715	10-536
25628	8	9-717	3-564	25699*	17	16-028	14-018	25771	11	15-296	25-165	25849	8	3-316	5-359	25921	10	13-500	10-011
25629	11	12-104	3-740	25700	21	16-135	14-832	25772	15	16-888	25-252	25850*	22	4-635	5-616	25922*	27	13-925	10-598
25630	9	8-133	4-695	25701	8	20-523	14-785	25773	20	25-564	25-912	25851*	32	0-114	5-143	25923	20	15-110	10-128
25631*	17	9-854	4-822	25702*	45	22-370	14-889	25774	15	25-692	25-256	25852	11	6-452	5-480	25924	10	17-286	10-599
25632*	29	19-783	4-000	25703	35	25-762	14-423					25853	13	6-626	5-966	25925	10	18-906	10-882
25633*	45	19-840	4-085	25704	20	17-330	15-132					25854	9	9-860	5-697	25926	8	20-066	10-484
25634*	29	22-774	4-439	25705	12	20-166	15-666					25855	11	9-980	5-431	25927	10	20-200	10-473
25635	20	23-085	4-460	25706	13	22-761	15-382					25856	8	12-322	5-600	25928	14	21-404	10-860
25636*	24	8-327	5-400	25707	12	10-130	16-880					25857	13	17-108	5-646	25929	8	22-566	10-329
25637	19	15-880	5-050	25708	13	13-228	16-884					25858*	43	18-860	5-638	25930*	29	24-832	10-780
25638	9	16-466	5-496	25709	10	17-496	16-213					25859	14	20-408	5-568	25931	9	0-864	11-180
25639	25	17-640	5-082	25710	8	20-127	16-840					25860	11	22-626	5-972	25932	11	3-348	11-029
25640	8	4-674	6-338	25711*	20	20-186	16-900					25861	8	25-920	5-728	25933	12	3-504	11-480
25641	13	14-668	6-238	25712	14	11-564	17-188					25862	15	0-251	6-389	25934	11	7-410	11-074
25642	9	18-762	6-012	25713	11	2-626	17-474					25863	18	3-844	6-650	25935	13	7-552	11-390
25643	11	18-774	6-862	25714	19	15-316	17-044					25864	8	5-863	6-558	25936	8	10-666	11-860
25644	12	20-108	6-236	25715	8	19-665	17-995					25865*	25	8-251	6-360	25937	20	11-572	11-515
25645	19	22-677	6-344	25716*	37	20-097	17-782					25866	13	11-330	6-012	25938*	120	14-054	11-835
25646	15	1-603	7-859	25717*	33	20-732	17-480					25867*	30	11-350	6-415	25939	8	18-036	11-385
25647	12	16-830	7-008	25718	11	21-876	17-800					25868	15	11-891	6-680	25940	10	18-224	11-674
25648	20	19-285	7-308	25719	16	23-935	17-200					25869*	16	12-019	6-188	25941	8	22-777	11-881
25649	8	20-918	7-093	25720	10	25-978	17-770					25870	10	14-159	6-808	25942	21	24-293	11-885
25650	8	0-257	8-720	25721	8	0-197	18-658					25871	8	15-322	6-634	25943	8	0-881	12-598
25651*	44	2-141	8-708	25722	12	2-363	18-402					25872	16	20-800	6-990	25944	12	1-674	12-650
25652*	45	3-860	8-794	25723*	76	5-128	18-736					25873	10	21-477	6-172	25945	9	3-870	12-401
25653	13	4-009	8-770	25724	8	6-682	18-446					25874	11	22-316	6-546	25946	9	4-194	12-761
25654	12	8-844	8-350	25725	13	15-022	18-174					25875	8	22-544	6-188	25947	8	11-371	12-946
25655	14	11-620	8-969	25726	18	18-778	18-222					25876	8	8-783	7-334	25948	8	13-079	12-875
				25727	20	18-800	18-982					25877	10	11-750	7-267	25949	10	20-387	12-704

</

R.A. 9<sup>h</sup> 4<sup>m</sup>

Plate 494 ; 1915 Feb. 15

### Provisional Constants.

$$\begin{array}{ccc} \text{A} & \text{B} & \text{C} \\ -.01758 & +.00159 & -.0162 \end{array}$$

D	E	F
-0.00149	-0.01780	-0.0168

$$Mag.=15.0-1.10\sqrt{a}$$



7°038	25950	9	21-724	12-506	26022	8	21-693	18-497	26094	8	17-583	25-492	26141	22	20-955	1-876	26213	24	4-124	6-910
7°101	25951	12	22-244	12-640	26023	8	0-068	19-543	26095	12	18-336	25-444	26142	40	21-192	1-382	26214	14	6-819	6-768
7°166	25952	8	0-803	13-736	26024	10	20-788	10-095	26096	14	19-266	25-324	26143	44	2-414	2-181	26215	14	6-827	6-407
7°231	25953	10	1-706	13-472	26025	10	22-316	10-056	26097	32	19-540	25-412	26144	8	2-446	2-793	26216	8	7-550	6-876
7°298	25954	11	1-745	13-066	26026	8	24-054	19-330	26098	8	21-122	25-515	26145	20	5-366	2-595	26217	36	9-838	6-600
7°363	25955	8	2-600	13-320	26027	9	0-163	20-412	26099	13	23-697	25-845	26146	15	6-344	2-580	26218	12	9-926	6-641
7°428	25956	12	20-261	13-322	26028	10	1-528	20-947					26147	36	7-292	2-463	26219	16	10-249	6-138
7°493	25957	10	20-348	13-028	26029	8	7-033	20-754					26148	8	8-953	2-069	26220	14	10-705	6-215
7°558	25958	8	21-190	13-220	26030	20	11-234	20-776					26149	20	10-286	2-621	26221	8	12-471	6-212
8°023	25959	21	21-525	13-826	26031	8	12-706	20-510					26150	16	13-954	2-685	26222	18	12-857	6-806
8°088	25960	8	22-616	13-169	26032	12	13-767	20-506					26151	12	15-538	2-645	26223	8	13-198	6-154
8°153	25961	8	23-306	13-225	26033	21	14-140	20-111					26152	12	15-911	2-574	26224	12	15-066	6-684
8°218	25962	12	23-806	13-372	26034	10	15-523	20-516					26153	24	19-738	2-749	26225	12	16-728	6-045
8°283	25963	31	0-002	14-537	26035	32	15-938	20-222					26154	8	20-443	2-562	26226	14	17-025	6-068
8°348	25964	8	3-368	14-701	26036	8	19-934	20-256					26155	10	21-024	2-144	26227	18	22-888	6-925
8°413	25965	20	3-394	14-442	26037	11	0-156	21-702					26156	18	21-205	2-254	26228	30	22-980	6-862
8°478	25966	27	5-332	14-333	26038	12	1-165	21-494					26157	24	21-480	2-683	26229	8	0-024	7-053
8°543	25967	8	12-502	14-312	26039	10	7-406	21-624					26158	8	21-693	2-683	26230	12	0-324	7-046
8°608	25968	8	18-688	14-658	26040	13	11-358	21-336					26159	22	22-332	2-033	26231	20	1-301	7-276
8°673	25969	8	19-204	14-157	26041	9	12-146	21-448					26160	18	25-784	2-604	26232	24	2-270	7-483
8°738	25970	10	20-236	14-042	26042	19	14-918	21-647					26161	8	0-910	3-681	26233	37	2-269	7-362
8°803	25971	10	21-119	14-164	26043	9	16-320	21-278					26162	12	1-441	3-730	26234	8	4-104	7-652
8°868	25972	8	21-316	14-887	26044	8	16-450	21-304					26163	32	2-330	3-618	26235	16	7-968	7-875
8°933	25973	10	21-802	14-559	26045	8	17-758	21-790					26164	14	3-100	3-689	26236	17	8-191	7-504
8°998	25974	9	22-729	14-754	26046	10	19-326	21-560					26165	12	6-295	3-482	26237	36	8-726	7-764
9°063	25975	8	23-785	14-193	26047	8	21-330	21-626					26166	10	8-572	3-707	26238	56	8-918	7-284
9°128	25976	8	24-006	14-056	26048	8	21-664	21-480					26167	8	8-614	3-500	26239	14	12-108	7-242
9°193	25977	9	24-724	14-052	26049	8	22-786	21-316					26168	10	8-734	3-481	26240	9	14-594	7-055
9°258	25978	11	0-404	15-432	26050	12	5-220	22-550					26169	8	8-788	3-518	26241	8	16-756	7-264
9°323	25979	8	4-104	15-424	26051	15	5-595	22-422					26170	8	8-844	3-947	26242	8	16-810	7-985
9°388	25980	9	6-352	15-695	26052	14	5-924	22-270					26171	18	9-186	3-862	26243	8	18-672	7-608
9°453	25981	8	7-574	15-124	26053	19	7-690	22-450					26172	16	10-914	3-030	26244	8	22-425	7-172
9°518	25982	8	8-455	15-428	26054	8	11-512	22-707					26173	40	13-192	3-769	26245	16	23-766	7-558
9°583	25983	10	12-578	15-968	26055	10	14-230	22-421					26174	56	13-817	5-011	26246	36	0-824	8-314
10°048	25984	28	16-324	15-600	26056	8	14-516	22-348					26175	8	15-135	3-044	26247	8	2-693	8-510
10°113	25985	8	23-175	15-083	26057	10	18-545	22-431					26176	18	18-637	3-526	26248	10	3-486	8-966
10°178	25986	11	25-102	15-329	26058	18	18-671	22-702					26177	8	19-433	3-196	26249	9	7-462	8-952
10°243	25987	9	3-937	16-420	26059	8	21-961	22-186					26178	8	21-734	3-732	26250	14	8-145	8-056
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26707	17	7-338	9-910	26779	12	24-100	16-934	26851	9	12-190	24-274
26708	9	7-884	9-400	26780	13	1-614	17-887	26852	10	12-956	24-931
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26710*	22	19-357	9-970	26782	10	11-784	17-935	26854	9	16-244	24-491
26711	9	22-752	9-134	26783	9	13-451	17-831	26855	10	20-858	24-928
26712	8	25-322	9-950	26784	8	15-160	17-786	26856	10	23-821	24-154
26713*	22	1-786	10-658	26785	10	15-739	17-802	26857	9	25-821	24-846
26714	16	6-486	10-607	26786	8	18-234	17-572	26858*	24	0-994	25-694
26715	8	11-722	10-500	26787	11	18-258	17-870	26859	9	5-806	25-712
26716	12	16-046	10-480	26788	14	18-332	17-258	26860	9	7-776	25-114
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26721	8	1-427	11-994	26793	8	3-282	18-792	26865	8	22-090	25-209
26722	8	4-104	11-412	26794	12	4-016	18-266	26866	16	24-746	25-184
26723	12	4-239	11-056	26795	9	6-173	18-540				
26724	13	14-821	11-582	26796	8	7-334	18-840				
26725	12	22-280	11-543	26797	8	14-407	18-400				
26726	22	25-394	11-742	26798	9	16-808	18-822				
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R.A. 9 <sup>h</sup> 28 <sup>m</sup>											
Plate 598: 1916 Feb. 29.											
Provisional Constants.											
A			B			C					
-0.2570			+0.0298			+2.012					
D			E			F					
-0.0302			-0.2575			-2.490					
Mag. = 17.3 - 1.05√d											
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26910*	56	12-314	0-888	26965	46	3-254	3-181	26965	46	3-254	3-181
26911	32	12-432	0-695	26966	8	9-717	3-429	26966	8	9-717	3-429
26912	12	17-414	0-613	26967	36	10-749	3-882	26967	36	10-749	3-882
26913	12	19-294	0-768	26968	8	15-606	3-740	26968	8	15-606	3-740
26914	14	21-356	0-153	26969	16	16-846	3-153	26969	16	16-846	3-153
26915	40	21-963	0-666	26970	13	18-758	3-071	26970	13	18-758	3-071
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26918	13	0-666	1-646	26972	16	19-926	3-934	26972	16	19-926	3-934
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26920	26	2-080	1-537	26976	8	23-926	3-049	26976	8	23-926	3-049
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26923*	96	3-792	1-532	26979*	52	2-938	4-996	26979*	52	2-938	4-996
26924*	40	7-252	1-528	26980	15	4-484	4-726	26980	15	4-484	4-726
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26926	16	8-764	1-710	26982	11	7-548	4-006	26982	11	7-548	4-006
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26928	12	11-800	1-593	26984*	51	12-952	4-108	26984*	51	12-952	4-108
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26930	12	13-167	1-296	26986	20	15-956	4-814	26986	20	15-956	4-814
26931	39	14-078	1-775	26987	17	16-214	4-684	26987	17	16-214	4-684
26932	30	15-411	1-018	26988	9	16-362	4-488	26988	9	16-362	4-488
26933	13	16-326	1-436	26989	8	16-422	4-259	26989	8	16-422	4-259
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26935	23	19-738	1-388	26991	32	22-014	4-042	26991	32	22-014	4-042
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26949*	36	8-006	2-063	27005	40	17-970	5-791	27005	40	17-970	5-791
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26952	8	17-868	2-026	27008	14	1-820	6-894	27008	14	1-820	6-894
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26954	19	18-730	2-480	27010	17	4-342	6-976	27010	17	4-342	6-976
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				27022	15	19-725	6-746	27022	15	19-725	6-746
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															R.A. 9 <sup>h</sup> 44 <sup>m</sup>			
															Plate 522; 1915 March 17.			
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															D	E	F	
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29951	9	24-154	9-571	30023	28	17-905	15-858	30095	9	20-488	20-481				
29952*	52	1-654	10-154	30024	8	20-448	15-464	30096	40	22-864	20-806				
29953	8	6-919	10-873	30025	10	21-495	15-906	30097*	84	1-242	21-820				
29954	27	8-094	10-694	30026	41	21-650	15-790	30098	8	2-364	21-142				
29955	20	10-560	10-590	30027	8	23-255	15-396	30099	12	3-116	21-760				
29956	8	11-832	10-617	30028	8	23-874	15-440	30100	10	3-356	21-183				
29957	10	14-664	10-166	30029	22	24-168	15-812	30101	8	15-090	21-100				
29958	8	18-968	10-370	30030	12	25-428	15-258	30102	9	17-054	21-296				
29959	17	22-800	10-860	30031	25	2-954	16-560	30103	17	17-554	21-052				

R.A. 10<sup>h</sup> 24<sup>m</sup>

Plate 618; 1916 March 5.

Provisional Constants.

A B C  
 -02573 +00128 +1-0948  
 D E F  
 -00119 -02581 -0522

Mag. = 17.0 - 1.05√d

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30204	8	3-980	0-264
30205	8	5-127	0-276
30206	8	8-756	0-006
30207	36	24-546	0-885
30208	22	6-254	1-559
30209	12	8-378	1-866
30210	8	10-434	1-034
30211	39	10-588	1-758
30212	10	13-667	1-655
30213	21	16-361	1-436
30214	8	17-154	1-396
30215*	60	19-965	1-704
30216	28	20-304	1-235
30217	18	24-398	1-431
30218	10	1-782	2-872
30219	17	4-656	2-693
30220	30	5-402	2-550
30221	8	6-144	2-993
30222	19	6-812	2-359
30223	9	7-276	2-264
30224	9	7-777	2-226
30225*	50	8-392	2-160
30226	38	16-628	2-941
30227	28	17-194	2-240
30228*	42	17-816	2-794
30229	14	22-410	2-838
30230	8	22-800	2-980
30231	8	24-757	2-919
30232	10	1-260	3-954
30233	26	2-782	3-518
30234	25	3-637	3-948
30235	19	6-526	3-028
30236*	58	6-736	3-794
30237*	56	7-219	3-981
30238	11	8-738	3-087
30239	9	9-734	3-112
30240	20	17-827	3-566
30241	14	18-800	3-997
30242	14	20-502	3-604
30243	10	21-042	3-311
30244	11	21-983	3-254
30245	16	22-603	3-867
30246	12	22-966	3-440
30247	36	23-886	3-749
30248	12	5-908	4-182
30249*	57	7-311	4-686
30250	11	7-828	4-060
30251	17	8-368	4-344
30252	19	9-598	4-799
30253	26	10-845	4-935
30254	9	12-145	4-953
30255	14	15-782	4-713

30256	32	16-739	4-856	30328	8	7-190	11-506	30400	8	0-106	16-305	30472	24	10-665	21-983
30257*	58	17-828	4-998	30329	16	12-722	11-088	30401	40	0-258	16-185	30473*	42	10-706	21-186
30258	13	18-821	4-979	30330	13	14-082	11-680	30402	14	0-864	16-521	30474	30	10-800	21-290
30259*	40	22-661	4-952	30331	14	18-829	11-278	30403	24	2-784	16-190	30475	14	11-941	21-775
30260	10	7-275	5-148	30332	14	18-968	11-368	30404	11	4-138	16-862	30476	8	12-255	21-328
30261	16	7-382	5-160	30333	9	19-551	11-102	30405	12	5-222	16-836	30477	12	20-217	21-835
30262	12	7-634	5-224	30334*	54	20-508	11-465	30406	8	5-805	16-056	30478	8	20-704	21-525
30263	8	8-885	5-976	30335	26	20-856	11-778	30407	9	13-644	16-004	30479	10	21-708	21-625
30264	9	11-326	5-448	30336	21	23-042	11-130	30408	8	16-906	16-789	30480	13	22-847	21-794
30265	10	11-723	5-880	30337	8	23-214	11-199	30409	36	16-920	16-948	30481	8	23-544	21-925
30266	30	15-412	5-155	30338	8	1-354	12-274	30410	9	19-874	16-664	30482	17	23-640	21-580
30267	9	16-114	5-436	30339	9	3-330	12-186	30411	8	22-454	16-566	30483	16	0-686	22-706
30268	8	21-822	5-384	30340	8	3-400	12-532	30412	10	0-929	17-691	30484	24	13-377	22-406
30269	8	22-282	5-840	30341	12	5-575	12-986	30413	8	2-612	17-162	30485	8	14-314	22-858
30270	20	22-584	5-166	30342	9	7-371	12-418	30414	9	3-122	17-616	30486	36	14-828	22-744
30271	25	23-544	5-314	30343	30	9-434	12-823	30415	17	6-376	17-329	30487	40	15-338	22-055
30272	17	23-866	5-473	30344	28	9-856	12-510	30416	12	12-868	17-514	30488	13	16-151	22-796
30273	8	24-314	5-582	30345	14	10-219	12-890	30417	12	13-466	17-996	30489	14	18-600	22-045
30274	8	0-300	6-268	30346	26	10-508	12-455	30418*	58	16-750	17-572	30490	14	25-268	22-642
30275	22	2-582	6-442	30347	30	11-480	12-450	30419	30	17-369	17-175	30491	46	1-026	23-323
30276	29	5-203	6-556	30348	29	11-558	12-855	30420	8	17-617	17-866	30492	36	1-448	23-514
30277	26	5-415	6-845	30349	18	12-531	12-164	30421	17	18-900	17-764	30493	20	1-718	23-136
30278	8	6-340	6-016	30350	36	16-244	12-976	30422	40	19-900	17-544	30494	14	4-825	23-374
30279	20	6-364	6-480	30351	26	16-913	12-179	30423*	44	19-903	17-664	30495	14	5-408	23-546
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30281	8	7-780	6-823	30353	40	21-356	12-900	30425	34	24-630	17-842	30497	8	12-679	23-018
30282	16	22-284	6-054	30354	20	21-635	12-333	30426	38	0-144	18-045	30498	24	14-114	23-535
30283	30	24-262	6-280	30355	24	22-214	12-450	30427	36	1-224	18-007	30499	26	14-135	23-568
30284	18	24-534	6-440	30356	8	23-074	12-764	30428	16	1-469	18-652	30500*	46	15-398	23-185
30285	24	0-413	7-280	30357	10	23-493	12-448	30429	39	3-886	18-814	30501	12	15-668	23-907
30286	8	2-443	7-086	30358	10	0-496	13-804	30430	8	7-139	18-074	30502	14	18-636	23-358
30287	8	4-622	7-200	30359	14	1-286	13-207	30431*	48	11-180	18-994	30503	38	25-514	23-366
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30289	17	10-410	7-206	30361	17	1-686	13-400	30433	10	11-999	18-624	30505	40	9-285	24-146
30290	28	10-844	7-128	30362	36	10-024	13-215	30434	16	13-604	18-536	30506	10	11-414	24-131
30291	8	12-730	7-243	30363	31	10-177	13-934	30435	12	16-682	18-594	30507	8	12-206	24-174
30292	29	18-156	7-814	30364	16	13-620	13-568	30436	12	16-732	18-288	30508*	76	13-224	24-462
30293	9	18-608	7-218	30365*	40	14-902	13-402	30437	36	18-446	18-826	30509	11	14-244	24-844
30294	16	21-326	7-868	30366	8	15-962	13-452	30438	8	20-682	18-866	30510	26	1-346	25-875
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30296	8	5-452	8-346	30368	24	20-642	13-258	30440*	64	23-612	18-902	30512	33	3-694	25-274
30297	38	8-344	8-871	30369	8	21-554	13-218	30441	32	25-012	18-164	30513	11	4-388	25-481
30298	30	16-182	8-325	30370	16	23-876	13-073	30442	19	0-800	19-508	30514	80	4-934	25-408
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30300	8	22-412	8-514	30372	22	25-639	13-504	30444*	64	2-138	19-499	30516	32	12-168	25-646
30301	8	22-800	8-127	30373*	24	2-514	14-232	30445	40	4-248	19-484	30517	12	12-179	25-126
30302	9	22-968	8-156	30374	22	2-576	14-734	30446	18	5-157	19-204	30518	28	15-194	25-213
30303	8	24-788	8-048	30375	32	3-414	14-616	30447	11	7-982	19-703	30519	12	15-900	25-826
30304	20	1-086	9-780	30376	26	5-737	14-966	30448	14	10-065	19-891	30520	12	16-720	25-354
30305	14	1-386	9-650	30377	13	6-635	14-245	30449*	44	10-826	19-270	30521	24	18-378	25-948
30306	24	1-416	9-250	30378	14	7-770	14-703	30450	38	12-708	19-107	30522	17	18-965	25-258
30307	14	2-716	9-948	30379	30	9-742	14-474	30451	19	13-537	19-498	30523	12	20-884	25-460
30308	10	7-636	9-366	30380	34	10-750	14-026	30452	21	15-800	19-360	30524	50	23-019	25-936
30309*	60	9-046	9-659	30381	14	11-166	14-636	30453	11	19-103	19-034	30525	20	23-901	25-244
30310	12	15-064	9-019	30382	8	12-026	14-282	30454	15	20-683	19-352	30526	20	25-673	25-154
30311*	64	15-808	9-475	30383	10	16-318	14-226	30455	44	21-658	19-326	30527	30	25-600	25-154
30312	12	0-277	10-745	30384	16	20-347	14-330	30456*	58	22-382	19-872	30528	10	25-600	25-154
30313	12	1-476	10-014	30385	12	21-774	14-920	30457	34	23-815	19-298	30529	12	22-196	25-098
30314	30	5-298	10-810	30386	12	24-844	14-165	30458	39	24-816	19-906	30530	8	25-238	25-704
30315	92	9-838	10-004	30387	26	0-559	15-104	30459	8	5-964	20-298	30531	34	0-574	25-693
30316	8	11-491	10-499	30388	8	1-864	15-776	30460	26	6-843	20-435	30532	8	1-616	25-810
30317	8	19-817	10-100	30389	8	2-486	15-826	30461	22	8-864	20-022	30533	13	5-159	25-514
30318	11	20-886	10-724	30390	15	4-038	15-620	30462	48	11-416	20-546	30534	40	5-656	25-878
30319	21	22-316	10-916	30391	11	5-666	15-314	30463	11	17-246	20-706	30535	10	9-874	25-974
30320*	48	22-526	10-253	30392	14	10-325	15-482	30464	17	21-644	20-046	30536	16	15-700	25-329
30321	17	22-618	10-118	30393	24	12-611	15-813	30465*	70	24-570	20-640	30537	65	15-722	25-264
30322	16	23-100	10-825	30394	10	13-259	15-071	30466	38	1-520	21-282	30538	15	18-700	25-314
30323	20	25-314	10-315	30395	18	17-540	15-066	30467	38	5-319	21-498	30539	15	21-080	25-394
30324	18	1-369	11-248	30396	36	17-965	15-710	30468	8	6-152	21-912	30540	15	22-220	25-821
30325	16	2-729	11-580	30397	12	20-667	15-166	30469	16	6-840	21-785	30541	8	23-256	25-652
30326	10	3-094	11-562	30398	11	22-515	15-914	30470	38	8-088	21-874	30542	8	25-442	25-523
30327*	64	5-324	11-782	30399	14	22-542	15-826	30471	12	8-560	21-826	30543	8	25-442	25-523

R.A. 10<sup>h</sup> 32<sup>m</sup>

Plate 630; 1916 March 7.

Provisional Constants.

A B C  
 -02580 +00955 +0810  
 D E F  
 -00978 -02584 -1332

Mag. = 16.9 - 1.05√d

No.	d	$\alpha$	$\gamma$
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30553	8	10-159	0-570
30554	28	12-218	0-568
30555	8	12-450	0-895
30556	21	13-323	0-480
30557*	52	21-394	0-274
30558	29	21-954	0-362
30559	8	23-962	0-162
30560	20	24-695	0-628
30561	26	25-806	0-704
30562	14	1-040	1-377
30563	8	4-232	1-278
30564	21	8-154	1-490
30565	8	8-284	1-366
30566	10	8-565	1-024
30567	30	9-736	1-143
30568	10	9-764	1-136
30569*	46	18-970	1-411
30570	13	19-000	1-898
30571*	64	19-105	1-322
30572	13	20-445	1-962
30573	17	20-774	1-293
30574*	33	22-750	1-133
30575	9	25-992	1-102
30576	8	1-430	2-852
30577	8	3-395	2-414
30578	28	3-264	2-439
30579	27	5-515	2-772
30580	22	6-285	2-273
30581	38	9-780	2-826
30582	8	14-515	2-772
30583	10	15-849	2-634
30584	8	17-744	2-912
30585	22	17-844	2-831
30586	8	18-266	2-219
30587	8	18-310	2-000
30588	16	18-525	2-242
30589	10	19-348	2-181
30590	8	20-074	2-157
30591	12	22-196	2-098
30592	8	25-238	2-370
30593	34	0-574	3-693
30594	8	1-616	3-819
30595	13	5-159	3-514
30596	40	5-656	3-878
30597	10	9-874	3-074
30598	8	11-332	3-351
30599	16	15-700	3-329
30600*	65	15-722	3-213
30601	15	18-700	3-064
30602	15	21-080	3-194
30603	8	22-220	3-281
30604	8	23-256	3-652
30605	8	25-442	3-322

30606	8	3-065	4-892	30678	43	8-726	10-964	30750	8	18-492	15-347	30822	13	17-714	21-550	R.A. 10 <sup>h</sup> 40 <sup>m</sup> Plate 631; 1916 March 7. Provisional Constants.			
30607*	60	4-466	4-457	30679*	60	12-504	10-851	30751	20	18-696	15-614	30823	19	18-424	21-529				
30608*	48	4-701	4-205	30680	8	14-538	10-002	30752	12	18-926	15-594	30824	28	22-814	21-860	A B C -02584 +00253 +1930			
30609*	60	14-987	4-226	30681	10	16-688	10-474	30753	31	21-214	15-016	30825	11	2-318	22-566				
30610	8	17-028	4-175	30682	8	17-857	10-382	30754*	51	22-284	15-490	30826	10	9-975	22-254	D E F -00272 -02587 -3269			
30611*	62	17-515	4-962	30683	23	18-645	10-655	30755	8	3-205	16-344	30827	8	13-971	22-090				
30612	13	18-700	4-133	30684	9	18-947	10-228	30756	40	3-406	16-769	30828*	52	14-956	22-195	Mag. = 17.0 - 1.05 √ d			
30613	8	19-702	4-603	30685	20	20-204	10-952	30757	11	5-462	16-817	30829	32	14-986	22-184				
30614	25	19-935	4-531	30686	9	20-386	10-194	30758	11	10-119	16-062	30830	8	15-886	22-217				
30615	8	20-858	4-440	30687	20	20-610	10-395	30759	8	13-934	16-554	30831	10	16-486	22-692	No. d x y θ			
30616	8	21-828	4-394	30688	36	22-844	10-006	30760	20	16-622	16-040	30832	8	16-727	22-596	30901	12	1-692	0-298
30617	13	22-914	4-530	30689	9	0-044	11-164	30761	22	17-760	16-247	30833	10	20-496	22-442	30902	29	2-427	0-761
30618	8	24-857	4-578	30690	9	2-994	11-728	30762	8	18-308	16-162	30834	8	22-216	22-430	30903	8	8-846	0-141
30619	18	0-259	5-274	30691	19	3-754	11-856	30763	26	18-835	16-664	30835	8	25-170	22-508	30904*	38	3-540	0-829
30620	12	0-586	5-426	30692	9	11-079	11-566	30764	9	19-812	16-370	30836	8	1-616	23-928	30905	16	8-928	0-766
30621	8	1-037	5-527	30693	37	11-215	11-271	30765	17	20-118	16-226	30837	35	2-587	23-754	30906	15	9-244	0-777
30622	33	6-055	5-358	30694	10	12-552	11-110	30766	8	1-284	17-756	30838	38	4-146	23-591	30907	18	9-679	0-798
30623	12	7-752	5-380	30695	38	13-600	11-060	30767	34	1-586	17-780	30839	8	5-118	23-797	30908	49	11-284	0-760
30624	41	9-056	5-644	30696*	56	19-452	11-450	30768	9	3-198	17-515	30840	30	6-748	23-182	30909	32	11-915	0-952
30625	27	10-932	5-780	30697	8	24-124	11-999	30769	24	4-130	17-102	30841	8	8-932	23-598	30910	10	14-814	0-108
30626	10	10-956	5-810	30698	8	25-058	11-110	30770	8	5-804	17-254	30842	10	14-026	23-682	30911	30	20-228	0-516
30627	8	17-252	5-552	30699	27	25-440	11-504	30771	8	6-888	17-692	30843	12	14-088	23-050	30912	36	0-484	1-270
30628	21	24-800	5-573	30700	9	0-346	12-408	30772	12	9-434	17-593	30844	10	14-660	23-603	30913	8	2-235	1-640
30629	24	0-994	6-226	30701	12	3-772	12-976	30773	8	10-350	17-300	30845	18	17-960	23-216	30914	21	3-724	1-226
30630	13	1-270	6-380	30702	34	4-598	12-024	30774*	47	13-845	17-770	30846	23	18-058	23-768	30915	15	6-324	1-016
30631	8	3-277	6-484	30703	38	10-675	12-766	30775	8	23-176	17-416	30847	10	18-180	23-381	30916*	52	6-654	1-274
30632	8	4-730	6-360	30704	13	13-736	12-594	30776	8	23-892	17-472	30848	19	19-044	23-990	30917	37	11-003	1-084
30633	10	5-158	6-588	30705	8	13-953	12-300	30777	8	24-015	17-624	30849	8	19-566	23-046	30918	10	16-333	1-540
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R.A. 10<sup>h</sup> 56<sup>m</sup>

Plate 613; 1916 March 4.

Provisional Constants.

A B C  
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32062	14	10-426	11-514	32134	11	12-375	16-303	32206	8	17-188	20-760	32278	11	8-740	25-305	32342	15	6-272	5-218
32063	14	12-796	11-854	32135*	34	13-523	16-402	32207	8	18-246	20-070	32279	9	10-645	25-888	32343	20	16-232	5-926
32064	10	14-244	11-446	32136	18	16-069	16-302	32208	21	21-430	20-116	32280	13	12-626	25-146	32344	20	17-070	5-810
32065	33	15-920	11-382	32137	13	20-095	16-224	32209	9	22-430	20-215	32281	15	16-030	25-687	32345	8	19-398	5-842
32066	11	16-960	11-327	32138	10	21-256	16-610	32210	10	22-705	20-294	32282	10	16-719	25-722	32346*	34	20-802	5-134
32067*	26	16-965	11-994	32139	8	25-404	16-198	32211	10	24-818	20-929	32283	10	19-794	25-412	32347	8	24-336	5-462
32068	9	19-726	11-910	32140	13	0-462	17-252	32212	29	0-141	21-628	32284	8	21-844	25-830	32348	10	7-774	6-235
32069	8	21-210	11-952	32141	9	2-774	17-465	32213	12	2-036	21-746					32349	18	11-958	6-070
32070	8	23-364	11-193	32142	8	2-892	17-373	32214	10	3-560	21-440					32350	29	15-241	6-092
32071	18	24-082	11-012	32143	10	3-160	17-626	32215	17	4-568	21-686					32351	11	16-130	6-661
32072	23	24-371	11-200	32144	8	3-776	17-888	32216	8	4-743	21-758					32352	8	24-714	6-608
32073	12	24-405	11-144	32145	8	4-086	17-441	32217	20	8-882	21-513					32353	8	0-205	7-754
32074	10	1-775	12-664	32146	10	6-284	17-592	32218	10	13-150	21-674					32354	8	2-580	7-002
32075	10	2-060	12-172	32147	10	6-646	17-935	32219	10	13-323	21-082					32355	20	3-440	7-418
32076	8	13-333	12-046	32148	9	6-860	17-545	32220	8	14-344	21-556					32356	21	8-186	7-776
32077	9	13-921	12-266	32149	18	8-108	17-626	32221	19	14-510	21-521					32357	21	8-250	7-767
32078	10	13-965	12-584	32150	8	8-706	17-016	32222	21	16-190	21-267					32358	14	9-958	7-850
32079*	93	22-752	12-201	32151	14	11-880	17-756	32223	8	16-268	21-524					32359	8	11-284	7-268
32080	14	0-065	13-995	32152	8	13-492	17-797	32224	9	18-291	21-600					32360	30	24-417	7-133
32081	10	2-860	13-925	32153	8	18-220	17-545	32225	8	21-774	21-566					32361*	58	2-350	8-209
32082	8	3-857	13-735	32154	9	18-235	17-572	32226	10	24-216	21-530					32362	10	19-275	8-500
32083	8	5-200	13-866	32155	19	18-438	17-668	32227	8	1-386	22-190					32363	16	10-709	9-798
32084	12	6-325	13-098	32156	8	20-622	17-600	32228	12	3-325	22-526					32364	8	11-956	9-444
32085	8	7-664	13-778	32157	21	20-636	17-246	32229	5	5-117	22-897					32365	9	12-823	9-420
32086	8	9-472	13-819	32158	8	20-844	17-800	32230	10	5-210	22-014					32366	11	15-250	9-176
32087	8	11-332	13-258	32159	40	23-953	17-874	32231	25	7-598	22-980					32367	20	21-208	9-978
32088	15	15-092	13-346	32160	8	0-546	18-540	32232	8	7-962	22-894					32368	14	1-766	10-984
32089	10	16-938	13-890	32161	20	1-135	18-219	32233	8	10-825	22-878					32369	11	7-044	10-622
32090	21	18-768	13-223	32162	8	3-940	18-437	32234	8	11-027	22-706					32370*	40	18-160	10-472
32091	10	25-582	13-328	32163	20	4-662	18-188	32235*	64	12-934	22-960					32371	8	18-195	10-008
32092	10	1-278	14-192	32164	11	8-214	18-026	32236	16	14-129	22-096					32372	21	2-059	11-170
32093	10	1-773	14-148	32165	14	11-948	18-102	32237	10	14-815	22-775					32373	8	2-094	11-111
32094	10	2-756	14-166	32166	13	13-026	18-272	32238	20	18-020	22-692					32374	28	5-310	11-670
32095	24	3-731	14-137	32167	18	13-296	18-062	32239	10	21-520	22-622					32375	28	12-265	11-264
32096	18	4-206	14-622	32168	21	14-283	18-094	32240	8	21-602	22-389					32376	8	14-567	11-499
32097	8	4-740	14-445	32169	8	14-415	18-785	32241	8	23-306	22-130					32377	110	0-436	12-187
32098	8	9-282	14-513	32170	8	14-982	18-949	32242	9	3-424	23-204					32378	15	8-046	12-862
32099	8	9-372	14-676	32171	13	15-789	18-114	32243	20	6-984	23-122					32379	9	9-126	12-848
32100	13	15-260	14-500	32172	14	18-254	18-805	32244	8	7-252	23-742					32380*	41	18-822	12-236
32101	11	15-450	14-325	32173	18	18-560	18-566	32245	8	11-425	23-052					32381	14	21-036	12-375
32102	14	15-770	14-895	32174	8	22-252	18-694	32246	8	12-174	23-112					32382	19	22-725	12-928
32103	8	17-304	14-464	32175	9	22-571	18-985	32247	27	13-486	23-968					32383	8	3-291	13-286
32104*	20	17-431	14-064	32176	12	0-565	19-098	32248	8	13-360	23-074					32384	19	5-810	13-724
32105	8	18-247	14-255	32177	12	1-444	19-561	32249	22	15-927	23-021					32385	8	17-802	13-214
32106*	35	20-258	14-008	32178	10	4-056	19-180	32250	10	18-100	23-148					32386	21	22-444	13-388
32107*	22	20-511	14-006	32179	27	4-814	19-096	32251	12	19-035	23-500					32387*	49	0-824	14-250
32108*	46	23-110	14-268	32180	9	5-125	19-842	32252	30	19-830	23-553					32388	10	1-003	14-806
32109	15	23-280	14-826	32181	8	7-024	19-735	32253	8	19-866	23-242					32389	8	1-430	14-240
32110	11	23-714	14-264	32182	8	8-248	19-243	32254	10	21-715	23-020					32390	14	4-924	14-276
32111	9	2-363	15-770	32183	8	9-392	19-479	32255	13	25-221	23-296					32391	8	7-984	14-712
32112	16	3-766	15-619	32184	11	9-540	19-490	32256	25	1-861	24-242					32392	8	12-556	14-210
32113	15	5-370	15-623	32185	11	10-140	19-168	32257	8	3-786	24-490					32393	16	16-626	14-066
32114	26	5-600	15-310	32186	8	11-113	19												

32399	26	8-196	16-036	<b>R.A. 11<sup>h</sup> 20<sup>m</sup></b> Plate 614; 1916 March 4. <i>Provisional Constants.</i> A B C -02579 +00235 +1076 D E F -00254 -02584 -2752 Mag. = 17.0 - 1.05 $\sqrt{d}$	32556	38	18-458	6-456	32628*	160	8-368	15-075	32700	16	22-884	22-321
32400	18	19-103	16-104		32557	25	22-026	6-386	32629	8	8-621	15-306	32701	21	23-336	22-430
32401	8	22-064	16-653		32558	8	23-604	6-576	32630	39	9-770	15-774	32702	8	0-811	23-619
32402*	46	22-422	16-994		32559	10	24-647	6-928	32631	27	10-095	15-700	32703	28	1-916	23-790
32403	8	23-702	16-760		32560	8	4-842	7-056	32632	31	14-678	15-070	32704	43	2-100	23-986
32404	36	0-804	17-858		32561	33	4-898	7-562	32633	28	15-050	15-826	32705	8	3-707	23-778
32405*	18	7-750	17-972		32562	8	6-906	7-543	32634	8	19-840	15-525	32706	31	3-790	23-419
32406	17	16-043	17-463		32563	10	14-472	7-300	32635	8	24-026	15-244	32707*	48	11-976	23-409
32407	10	18-294	17-290		32564	11	16-226	7-249	32636	58	0-181	16-784	32708	42	12-935	23-164
32408	34	25-736	17-538		32565*	8	16-437	7-044	32637	8	1-164	16-536	32709	37	1-466	23-409
32409	8	0-336	18-976	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32566	46	18-732	7-876	32638	41	6-022	16-435	32710	40	21-830	23-036
32410	8	13-309	18-414		32567*	66	20-540	7-720	32639	8	8-406	16-308	32711	30	23-228	23-150
32411	8	15-026	18-592		32568	11	23-581	7-146	32640	8	11-198	16-840	32712	19	1-044	24-888
32412	10	0-815	19-416		32569	8	3-946	8-056	32641	8	11-399	16-979	32713	41	3-609	24-770
32413	16	3-236	19-326		32570	8	4-100	8-586	32642	9	11-476	16-229	32714	9	6-522	24-890
32414	14	15-015	19-400		32571*	54	6-186	8-490	32643	8	12-506	16-142	32715	8	17-485	24-690
32415	10	18-190	19-435		32572	24	8-174	8-372	32644	13	18-082	16-515	32716	15	25-725	24-094
32416	8	0-483	20-282		32573	24	8-700	8-040	32645*	45	21-544	16-006	32717	8	2-127	25-887
32417	8	2-603	20-894		32574	8	11-372	8-344	32646	11	23-196	16-990	32718	10	4-094	25-958
32418	8	13-436	20-770		32575	38	15-590	8-224	32647*	44	3-504	17-290	32719	10	4-484	25-328
32419	20	15-028	20-416	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32576	16	17-677	8-246	32648	34	4-898	17-760	32720	8	18-650	25-225
32420	35	17-046	20-722		32577	8	18-584	8-255	32649	9	5-500	17-261	32721	8	23-944	25-902
32421	8	18-980	20-793		32578	8	22-034	8-792	32650	8	8-868	17-297	32722	8	24-820	25-282
32422	8	2-006	21-505		32579	24	5-316	9-076	32651	10	7-472	17-705	32723	34	25-635	25-986
32423	9	4-732	21-475		32580*	80	8-799	9-712	32652	27	7-805	17-981				
32424	8	6-222	21-868		32581	36	12-766	9-104	32653	36	8-262	17-284				
32425	15	8-523	21-734		32582	14	15-894	9-176	32654*	47	10-514	17-395				
32426	8	10-059	21-664		32583*	60	18-956	9-064	32655	8	10-997	17-766				
32427	20	12-036	21-586		32584	9	20-806	9-892	32656	17	15-831	17-800				
32428	8	12-715	21-263		32585	26	22-805	9-417	32657	31	20-404	17-100				
32429	11	18-907	21-402	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32586	32	24-269	9-956	32658	8	21-884	17-020				
32430	11	19-720	21-810		32587	38	25-619	9-282	32659	8	22-090	17-558				
32431	12	22-284	21-926		32588	24	2-850	10-965	32660	10	24-274	17-466				
32432*	37	23-663	21-284		32589	27	3-764	10-300	32661	44	8-221	18-979				
32433	9	24-836	21-800		32590	29	3-874	10-559	32662	9	13-220	18-920				
32434	10	25-560	21-183		32591	33	7-838	10-625	32663*	43	16-140	18-536				
32435	23	13-544	22-800		32592	41	8-896	10-780	32664*	45	17-520	18-494				
32436	13	15-343	22-550		32593	41	9-934	10-537	32665	8	20-238	18-052				
32437	13	3-026	23-260		32594	10	10-436	10-036	32666	43	21-292	18-436				
32438	8	4-459	23-408		32595	8	10-815	10-268	32667	8	21-292	18-615				
32439	24	6-634	23-598	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32596	8	10-884	10-378	32668	9	6-212	19-005				
32440	13	7-488	23-366		32597	35	14-418	10-582	32669	21	6-600	19-004				
32441	14	8-606	23-681		32598	4	14-801	10-034	32670	13	10-784	19-646				
32442*	36	8-637	23-148		32599*	66	16-794	10-794	32671	34	12-076	19-094				
32443	15	9-314	23-193		32600	40	19-753	10-676	32672*	70	18-464	19-964				
32444	22	21-284	23-378		32601*	52	22-158	10-356	32673	31	3-370	20-935				
32445	11	21-632	23-788		32602	78	25-876	10-764	32674	32	3-870	20-126				
32446	8	24-840	23-220		32603*	80	6-609	11-986	32675	35	5-446	20-812				
32447	13	25-953	23-668		32604	38	7-894	11-043	32676	10	8-128	20-090				
32448	9	0-212	24-832		32605	36	10-883	11-556	32677	20	10-926	20-292				
32449*	36	4-858	24-650	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32606	11	23-292	11-206	32678	34	17-826	20-022				
32450*	39	6-057	24-236		32607	37	0-439	12-716	32679*	42	21-018	20-540				
32451	8	9-404	24-450		32608	32	4-565	12-279	32680	44	25-924	20-192				
32452*	30	10-632	24-961		32609*	54	6-249	12-972	32681	20	0-104	21-716				
32453	10	10-694	24-650		32610	8	7-412	12-946	32682*	48	1-470	21-060				
32454	8	12-366	24-808		32611	8	11-345	12-686	32683	15	2-653	21-560				
32455	8	12-367	24-838		32612	13	12-120	12-390	32684	28	6-744	21-612				
32456	15	15-176	24-460		32613	33	17-953	12-062	32685	10	11-002	21-236				
32457	11	15-810	24-898		32614*	80	19-464	12-004	32686	9	14-874	21-634				
32458*	60	21-736	24-688		32615	42	22-850	12-382	32687	17	15-844	21-430				
32459	24	22-074	24-412	<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b> Plate 716; 1916 May 6. <i>Provisional Constants.</i> A B C -02571 +00004 +1520 D E F -00011 -02593 -4181 Mag. = 16.7 - 1.05 $\sqrt{d}$	32616	11	23-702	12-900	32688	11	16-264	21-693				
32460	8	23-386	24-275		32617	38	0-166	13-117	32689	23	24-328	21-704				
32461	13	24-074	24-020		32618	8	3-438	13-348	32690	8	2-676	22-980				
32462	28	24-254	24-218		32619	17	7-720	13-448	32691	38	11-028	22-764				
32463*	40	7-700	25-084		32620*	91	13-511	13-038	32692	10	15-872	22-383				
32464	77	8-265	25-450		32621	8	21-428	13-304	32693	8	16-122	22-730				
32465	10	13-037	25-098		32622*	48	21-824	13-440	32694	40	16-865	22-568				
32466	10	15-439	25-472		32623	8	0-917	14-417	32695	8	17-584	22-190				
32467	20	18-884	25-804		32624*	41	1-515	14-500	32696	32	18-088	22-535				
32468	11	23-186	25-110		32625	14	4-472	14-248	32697*	48	18-444	22-906				
32469	19	25-816	25-020		32626	10	22-406	14-756	32698	8	19-975	22-421				
					32627	23	5-664	15-080	32699	13	20-456	22-262				

32773	40	20-824	1-540	32845	8	0-973	10-744	32917	14	11-710	20-590	R.A. 11 <sup>h</sup> 36 <sup>m</sup>				33056	8	7-463	9-055
32774	15	0-154	2-748	32846*	70	3-618	10-667	32918	15	13-383	20-726	Plate 650; 1916 March 27.				33057	8	8-610	9-923
32775	12	3-958	2-280	32847	16	3-895	10-357	32919	10	22-070	20-822	Provisional Constants.				33058	20	19-252	9-798
32776	10	13-146	2-596	32848	8	15-193	10-618	32920	26	22-624	20-740	A B C				33059	8	22-150	9-651
32777	19	17-128	2-205	32849	8	19-606	10-076	32921*	46	23-332	20-716	-02582 +00134 +2590				33060	8	0-733	10-886
32778	36	24-126	2-654	32850	11	22-894	10-306	32922	20	2-170	21-624	D E F				33061	15	1-191	10-020
32779*	60	4-267	3-128	32851	14	24-490	10-949	32923	24	5-159	21-418	-00164 -02603 -1460				33062	12	2-528	10-163
32780	8	5-406	3-323	32852	24	24-850	10-580	32924	37	13-250	21-978	Mag. = 16-0 - 1.05√d				33063	10	2-691	10-833
32781*	44	5-444	3-059	32853	16	1-048	11-132	32925	8	16-746	21-576					33064	10	4-446	10-384
32782	32	6-916	3-640	32854	36	4-542	11-623	32926	28	21-515	21-150					33065*	40	11-823	10-085
32783*	32	8-226	3-242	32855*	39	18-433	11-204	32927	31	22-272	21-250					33066	20	21-875	10-414
32784	10	11-156	3-859	32856	14	20-850	11-410	32928	13	24-502	21-651					33067*	106	23-232	10-116
32785	14	15-864	3-560	32857	14	24-218	11-215	32929	14	0-735	22-251					33068	8	25-846	10-076
32786	8	23-751	3-671	32858	8	25-219	11-980	32930	17	1-388	22-353					33069	8	2-070	11-475
32787	20	1-598	4-930	32859	35	0-614	12-309	32931	8	1-980	22-470					33070	8	2-338	11-207
32788	8	1-886	4-924	32860	12	1-468	12-821	32932	8	4-935	22-793					33071	8	5-071	11-990
32789*	68	4-375	4-488	32861	11	4-176	12-997	32933	8	9-304	22-394					33072	11	6-638	11-474
32790	9	8-231	4-636	32862	8	13-646	12-858	32934	16	12-028	22-521					33073	13	8-952	11-451
32791	22	8-370	4-074	32863	34	15-679	12-210	32935	30	13-753	22-274					33074*	20	14-445	11-136
32792	30	9-376	4-038	32864	9	18-806	12-000	32936	8	14-802	22-678					33075*	42	17-632	11-332
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34272	8	24°395	10°974	34344	10	7°528	17°500	34416	8	15°556	22°887	34582	11	12°314	8°649
34273	8	0°058	11°677	34345	9	8°415	17°376	34417	18	15°589	22°375	34583	16	12°854	8°529
34274	80	0°616	11°116	34346	22	10°421	17°898	34418	8	18°666	22°918	34584	10	15°636	8°876
34275	8	1°452	11°216	34347	8	10°628	17°924	34419*	41	18°736	22°322	34585	8	16°338	8°688
34276	16	2°470	11°114	34348	8	13°910	17°370	34420	20	19°418	22°499	34586	52	22°260	8°714
34277	12	5°533	11°255	34349	8	14°458	17°366	34421	8	19°425	22°037	34587	12	22°838	8°074
34278	8	6°244	11°863	34350	10	21°634	17°819	34422	8	19°728	22°435	34588	59	23°106	8°827
34279	12	7°233	11°614	34351	9	0°464	18°175	34423	8	22°221	22°586	34589	12	24°541	8°536
34280	15	13°579	11°810	34352	10	2°078	18°958	34424	18	5°931	23°100	34590	8	0°096	9°762
34281	8	15°111	11°634	34353	9	2°268	18°626	34425	26	7°704	23°391	34591*	43	2°654	9°061
34282	10	19°570	11°929	34354	13	3°436	18°632	34426	8	11°224	23°084	34592	13	12°342	9°236
34283	20	23°055	11°776	34355	8	6°065	18°688	34427	10	12°965	23°314	34593	13	15°425	9°286
34284	8	23°700	11°604	34356	26	8°376	18°732	34428	10	15°025	23°894	34594	23	19°332	9°710
34285	8	23°788	11°654	34357	11	8°865	18°258	34429	10	17°580	23°306	34595	8	21°328	9°926
34286	15	25°910	11°266	34358	8	9°765	18°225	34430	8	18°025	23°590	34596	18	21°546	9°989
34287	10	0°280	12°674	34359	8	14°657	18°395	34431	13	25°994	23°025	34597	8	2°109	10°906
34288	8	1°575	12°235	34360	12	15°394	18°205	34432	8	0°224	24°961	34598*	62	14°830	10°601
34289	8	2°760	12°456	34361	8	15°670	18°456	34433	14	1°480	24°138	34599	8	21°305	10°781
34290	10	3°277	12°754	34362	8	19°571	18°938	34434	8	1°956	24°527	34600	18	21°794	10°112
34291	9	3°774	12°772	34363	13	22°319	18°995	34435	28	5°245	24°196	34601	10	25°151	10°790
34292	10	4°328	12°727	34364	8	24°302	18°362	34436	8	5°324	24°803	34602	8	25°194	10°416
34293	8	10°422	12°315	34365	10	25°766	18°938	34437	30	5°386	24°250	34603	8	25°198	10°170
34294	12	14°366	12°244	34366	14	0°402	19°159	34438	34	5°466	24°198	34604	28	0°792	11°746
34295	10	15°555	12°964	34367	8	0°420	19°566	34439	10	6°564	24°712	34605	8	1°520	11°604
34296	10	16°815	12°936	34368	12	4°148	19°961	34440	16	11°156	24°324	34606	21	3°632	11°164
34297	20	18°515	12°434	34369*	46	15°974	19°562	34441	18	14°130	24°636	34607	10	5°844	11°259
34298*	45	19°936	12°395	34370	13	19°780	19°066	34442	8	17°282	24°665	34608	11	7°780	11°442
34299	8	6°978	13°335	34371	10	20°542	19°755	34443	8	18°154	24°813	34609	10	18°012	11°914
34300	8	7°048	13°194	34372	8	23°284	19°473	34444	9	18°344	24°065	34610	12	18°778	11°427
34301	35	8°316	13°216	34373	8	24°370	19°022	34445	14	20°998	24°467	34611	12	18°778	11°427
34302	20	11°275	13°478	34374	9	24°984	19°076	34446	12	25°195	24°716	34612	24	20°666	11°099
34303	35	13°244	13°668	34375	8	0°471	20°175	34447	9	1°407	25°715	34613	9	25°394	11°966
34304	8	14°108	13°964	34376	12	0°675	20°394	34448	8	1°855	25°460	34614	26	6°500	12°208
34305	8	14°899	13°443	34377	35	0°778	20°076	34449	12	2°896	25°426	34615	8	9°081	12°965
34306	12	17°376	13°825	34378	12	1°336	20°216	34450	10	3°392	25°136	34616	8	12°345	12°221
34307	10	17°988	13°343	34379	8	2°166	20°858	34451	8	8°810	25°306	34617	29	17°430	12°965
34308	8	18°079	13°721	34380	8	3°696	20°485	34452	8	11°075	25°926	34618	11	18°862	12°068
34309*	34	19°202	13°411	34381	10	3°793	20°332	34453	8	11°328	25°986	34619	11	19°864	12°974
34310	29	1°976	14°540	34382	8	4°316	20°416	34454	8	11°392	25°406	34620	34	20°342	12°712
34311	8	2°472	14°066	34383	10	4°576	20°936	34455	8	14°409	25°374	34621	44	23°068	12°712
34312	8	2°554	14°479	34384	8	9°467	20°209	34456	9	17°572	25°483	34622	8	9°279	13°297
34313	10	4°338	14°464	34385	24	12°558	20°324					34623	8	10°300	13°448
34314	10	14°378	14°498	34386	17	18°217	20°417					34624	8	11°688	13°870
34315	20	15°363	14°867	34387	31	18°311	20°934					34625	8	14°564	13°917
34316	9	15°730	14°289	34388	8	19°810	20°676					34626	10	18°886	13°298
34317	26	17°680	14°272	34389	10	21°550	20°736					34627	20	21°165	13°440

34628	22	21°34.8	13°99.2	34700	13	12°7.6	22°70.6	34770	12	3°32.6	2°44.2	34842	41	2°97.5	7°75.8	34914	10	25°75.1	11°59.6
34629	9	1°35.4	14°47.2	34701	13	21°16.4	22°25.2	34771	28	4°66.4	2°65.0	34843	20	5°09.0	7°55.6	34915	42	0°86.6	12°69.8
34630	19	3°50.8	14°00.2	34702	8	24°51.6	22°01.5	34772	27	4°71.8	2°12.6	34844	15	5°33.7	7°19.2	34916	8	1°50.0	12°73.6
34631*	45	4°88.9	14°35.0	34703	29	24°69.6	22°88.8	34773	11	5°41.0	2°37.1	34845	15	5°34.8	7°08.6	34917	9	2°04.1	12°13.0
34632	8	22°55.7	14°02.3	34704	19	13°33.8	23°43.6	34774	24	7°02.0	2°13.3	34846	8	5°91.2	7°45.0	34918	13	4°76.4	12°90.4
34633	25	23°66.6	14°24.0	34705	8	14°49.5	23°10.1	34775	8	7°34.0	2°49.0	34847	27	6°44.2	7°65.7	34919	16	6°50.0	12°10.0
34634	8	25°45.2	14°68.5	34706	21	19°71.8	23°60.5	34776	10	7°70.0	2°02.6	34848	22	10°62.0	7°24.4	34920	8	8°14.9	12°82.2
34635	20	24°42.6	15°65.0	34707	38	20°98.6	23°86.4	34777	8	9°54.7	2°16.2	34849	10	13°75.0	7°10.0	34921*	38	5°37.8	12°94.1
34636	16	7°19.9	15°88.2	34708	8	21°13.6	23°10.4	34778	8	11°09.9	2°82.5	34850	10	14°47.3	7°16.0	34922*	64	9°42.4	12°94.0
34637	16	14°82.5	15°49.3	34709*	54	23°22.1	23°98.8	34779	9	12°32.8	2°37.4	34851	8	15°62.8	7°55.0	34923	8	10°50.7	12°44.2
34638	8	15°89.2	15°97.0	34710	8	3°25.6	24°62.8	34780	9	12°33.8	2°57.1	34852	15	16°57.4	7°76.0	34924	10	14°93.3	12°40.0
34639	24	16°49.8	15°06.0	34711	8	4°86.9	24°09.1	34781	20	13°15.6	2°52.1	34853	8	20°59.7	7°26.2	34925	10	15°00.2	12°90.4
34640	8	17°88.4	15°79.4	34712	8	6°34.6	24°60.0	34782	18	13°38.5	2°94.3	34854	17	21°26.2	7°33.0	34926	8	15°75.8	12°79.8
34641	8	19°47.5	15°94.4	34713	23	8°86.4	24°77.9	34783	37	16°99.6	2°36.5	34855	10	21°31.0	7°67.5	34927	10	16°07.0	12°85.8
34642	15	21°33.4	15°71.0	34714	18	9°05.4	24°75.7	34784	14	18°00.4	2°72.0	34856	8	22°58.8	7°96.9	34928	11	16°97.0	12°29.0
34643	11	22°16.1	15°05.4	34715	9	10°85.3	24°18.1	34785	11	18°13.1	2°70.7	34857	8	24°13.4	7°11.5	34929	8	21°06.7	12°24.5
34644	11	23°71.4	15°67.0	34716	10	14°82.8	24°62.6	34786*	56	18°45.2	2°47.6	34858	13	24°36.7	7°29.0	34930	8	21°11.4	12°26.3
34645	17	23°85.0	15°85.3	34717	26	14°85.0	24°45.0	34787	8	23°26.9	2°66.6	34859	10	0°56.1	8°06.3	34931	10	22°41.8	12°34.0
34646	9	25°47.6	15°10.0	34718	15	16°30.6	24°41.0	34788	14	24°46.1	2°82.9	34860*	56	8°81.2	8°12.1	34932	8	0°40.5	13°34.4
34647*	33	4°28.6	16°50.0	34719*	76	20°90.8	24°25.8	34789	58	25°64.6	2°57.0	34861	12	22°70.0	8°16.6	34933	8	3°48.2	13°15.6
34648	16	5°86.5	16°31.9	34720	8	22°99.2	24°60.2	34790	8	0°97.4	3°57.7	34862	8	3°50.7	8°04.2	34934	8	3°60.7	13°49.9
34649	8	6°41.1	16°80.6	34721	8	3°51.8	25°08.1	34791	34	3°29.5	3°27.4	34863	17	7°15.8	8°13.5	34935	8	4°19.2	13°88.0
34650*	30	8°20.8	16°80.4	34722	8	4°60.0	25°66.6	34792	18	4°28.4	3°12.3	34864	8	8°33.0	8°56.8	34936	11	4°69.0	13°69.0
34651	12	9°63.8	16°50.1	34723	8	9°04.8	25°05.6	34793	11	8°15.9	3°82.2	34865*	68	8°92.6	8°56.0	34937	10	6°80.0	13°48.7
34652	8	16°45.4	16°58.0	34724	8	14°32.9	25°53.0	34794	15	10°88.5	3°89.4	34866	8	9°46.2	8°77.6	34938	8	6°90.4	13°93.2
34653	8	20°31.4	16°98.8	34725	14	18°19.2	25°18.3	34795	8	12°11.0	3°13.0	34867	13	10°88.4	8°46.8	34939	8	10°01.5	13°15.4
34654	22	24°81.6	16°75.0	34726	14	18°95.0	25°58.0	34796	10	17°48.0	3°14.7	34868	12	11°62.0	8°31.5	34940	10	10°56.7	13°68.4
34655	8	4°34.4	17°80.0	34727	8	19°68.4	25°58.9	34797	8	18°05.6	3°14.8	34869	11	12°68.1	8°61.5	34941	8	12°34.7	13°63.5
34656	10	14°07.4	17°09.8	34728	8	24°50.0	25°01.0	34798	40	19°02.0	3°51.2	34870	8	16°92.3	8°13.6	34942	10	14°70.0	13°66.4
34657	22	17°80.3	17°07.4					34799	8	19°28.4	3°61.9	34871	14	17°10.6	8°46.8	34943	10	17°37.7	13°47.8
34658	10	19°97.0	17°11.0					34800	22	21°80.1	3°45.5	34872	10	17°50.4	8°02.7	34944	17	19°84.4	13°55.2
34659	10	21°75.5	17°24.4					34801	10	22°85.0	3°54.4	34873	11	17°95.3	8°78.4	34945	23	19°80.6	13°67.4
34660	23	0°23.5	18°97.8					34802	63	25°21.0	3°40.2	34874	10	20°43.3	8°25.6	34946	16	25°76.8	13°05.8
34661	8	2°28.8	18°95.6					34803	28	3°09.0	4°98.4	34875	36	24°87.0	8°65.2	34947	20	1°35.0	14°22.3
34662	10	2°90.0	18°99.5					34804	8	4°91.2	4°91.9	34876	8	6°42.6	9°37.4	34948	9	3°20.0	14°66.3
34663	10	3°68.0	18°83.9					34805	11	7°36.6	4°58.8	34877	37	9°91.0	9°06.8	34949	10	4°58.5	14°71.0
34664	8	11°41.4	18°96.8					34806	10	8°73.4	4°02.9	34878*	38	10°96.5	9°23.5	34950	31	6°62.4	14°07.4
34665	17	17°80.2	18°15.0					34807	8	9°93.8	4°53.0	34879	9	11°60.3	9°45.0	34951	8	7°02.0	14°12.2
34666*	38	18°83.0	18°63.3					34808	21	11°08.8	4°00.3	34880	28	11°60.8	9°33.0	34952	12	8°79.1	14°69.2
34667	8	24°22.5	18°24.1					34809	8	11°36.4	4°46.8	34881	8	16°04.3	9°25.3	34953	8	10°41.0	14°57.8
34668	28	24°45.6	18°96.2					34810	10	12°38.6	4°99.8	34882	18	17°51.3	9°28.1	34954	8	10°55.3	14°33.8
34669	12	10°60.2	19°08.2					34811	8	14°09.2	4°44.0	34883	8	21°90.0	9°85.6	34955	8	12°06.3	14°88.8
34670	31	12°49.2	19°98.2					34812	8	16°77.8	4°83.4	34884*	37	22°34.0	9°00.2	34956	8	12°47.8	14°90.2
34671	21	14°89.0	19°95.0					34813	25	17°53.6	4°97.6	34885	11	22°57.6	9°99.4	34957	8	13°63.8	14°98.5
34672	14	14°97.6	19°83.5					34814	9	17°87.2	4°20.9	34886	8	24°79.6	9°94.2	34958*	38	16°07.1	14°45.3
34673	15	19°80.0	19°17.4					34815	10	24°94.0	4°23.0	34887	14	25°59.6	9°27.5	34959	20	16°61.0	14°54.6
34674	9	22°40.0	19°10.4					34816	41	25°87.5	4°18.4	34888	8	25°95.3	9°98.5	34960	8	17°59.4	14°41.0
34675	22	22°48.6	19°20.4					34817	10	0°88.0	5°66.9	34889	8	2°69.6	10°84.2	34961	10	19°37.6	14°08.6
34676	37	23°72.4	19°70.4					34818	8	0°91.4	5°09.8	34890	12	2°88.6	10°76.7	34962	8	20°16.6	14°38.0
34677	8	3°21.4	20°25.4					34819*	47	3°07.2	5°14.6	34891	8	2°92.5	10°39.7	34963	11	21°99.5	14°36.8
34678	8	6°63.3	20°58.7					34820	8	3°17.0	5°59.3	34892	9	2°93.0	10°14.9	34964*	45	22°12.6	14°51.6
34679	30	6°20.0	20°85.9					34821*	47	3°94.0	5°00.8	34893*	64	7°45.8	10°63.6	34965	12	1°46.3	15°65.2
34680	19	8°50.6	20°56.4					34822	8	5°71.4	5°33.3	34894	10	7°91.2	10°17.5	34966	14	1°60.2	15°83.5
34681*	56	8°70.6	20°67.2					34823	11	7°29.7	5°49.0	34895	8	9°01.8	10°50.8	34967	12	3°22.4	15°07.6
34682*	48	8°92.4	20°00.8					34824	15	9°14.8	5°74.7	34896	10	12°11.9	10°24.0	34968	10	10°12.2	15°81.6
34683*	48	9°53.8	20°87.7					34825	12	10°32.0	5°71.0	34897	10	12°67.0	10°36.0	34969	8	13°38.6	15°83.8
34684	9	10°88.6	20°65.3					34826	8	10°97.4	5°22.0	34898	9	13°91.4	10°65.0	34970	8	18°87.0	15°73.6
34685	8	11°27.6	20°40.0					34827	25	11°51.4	5°67.0	34899	19	18°36.9	10°07.3	34971	8	25°72.2	15°54.3
34686	8	17°65.0	20°09.6					34828	11	11°88.0	5°70.0	34900	10	22°64.0	10°35.3	34972	16	2°57.0	16°72.6
34687	8	19°83.2	20°17.0					34829	13	14°45.4	5°06.4	34901	8	23°04.3	10°54.4	34973	8	3°93.4	16°58.4
34688*	68	20°44.8	20°22.0					34830*	46	15°64.2	5°16.6	34902	9	23°81.4	10°35.2	34974	8	5°49.4	16°70.0
34689	16	21°15.5	20°29.5					34831	24	15°72.0	5°50.0	34903	12	25°47.0	10°20.4	34975	10	9°41.2	16°45.2
34690	21	22°7.8	21°30.0					34832	21	16°36.3	5°58.8	34904	11	3°13.0	11°88.4	34976	10	10°37.8	16°65.3
34691*	40	22°33.6	21°53.6					34833	10	18°36.2	5°02.6	34905							



34986	24	9-471	17-348	35058	38	4-487	22-807	35156	24	22-798	0-616	35228	32	19-616	7-075	35300	32	3-554	13-456
34987	28	9-587	17-440	35059	32	14-686	22-828	35157	20	25-004	0-456	35229*	82	4-372	8-486	35301	8	7-281	13-937
34988	8	9-748	17-632	35060	10	16-148	22-272	35158	12	1-964	1-351	35230*	40	6-479	8-115	35302	10	11-722	13-050
34989	10	10-700	17-519	35061	9	18-272	22-050	35159	40	3-520	1-601	35231	40	8-704	8-450	35303*	44	17-866	13-350
34990	8	11-410	17-548	35062	13	19-755	22-868	35160	38	5-546	1-051	35232	41	11-536	8-350	35304*	44	23-861	13-950
34991	20	14-944	17-443	35063	8	23-707	22-193	35161	8	7-535	1-025	35233	8	14-073	8-827	35305	19	25-609	13-902
34992*	47	18-450	17-464	35064	8	25-351	22-380	35162	9	12-626	1-814	35234*	47	17-735	8-050	35306	44	5-008	14-806
34993	8	18-696	17-632	35065	59	0-996	23-972	35163	8	15-242	1-658	35235	41	19-004	8-838	35307	8	5-756	13-354
34994	30	22-282	17-822	35066	10	8-486	23-812	35164	8	16-793	1-958	35236	36	19-128	8-565	35308	43	6-870	14-876
34995	26	23-048	17-815	35067	14	8-747	23-340	35165*	40	17-538	1-950	35237	31	20-216	8-001	35309	10	7-724	14-329
34996	8	1-144	18-180	35068	8	11-651	23-902	35166	27	19-848	1-500	35238*	70	20-375	8-361	35310	19	7-846	14-197
34997	25	2-217	18-940	35069	8	12-175	23-798	35167	35	21-510	1-722	35239	18	24-452	8-030	35311	15	8-466	14-692
34998	25	4-451	18-666	35070	13	16-081	23-796	35168	11	21-534	1-075	35240	43	2-606	9-064	35312	11	9-644	14-512
34999	8	4-661	18-160	35071	13	23-376	23-948	35169	8	21-576	1-716	35241	17	3-344	9-676	35313	10	9-726	14-977
35000	8	5-539	18-840	35072	8	25-543	23-242	35170	34	3-298	2-335	35242	8	3-845	9-227	35314	10	10-804	14-590
35001	13	8-790	18-482	35073	8	0-771	24-582	35171*	64	3-126	2-971	35243	10	5-542	9-826	35315*	43	15-734	14-179
35002*	43	10-332	18-056	35074	8	4-932	24-516	35172	8	5-218	2-805	35244	8	6-376	9-954	35316	10	19-444	14-376
35003	10	12-022	18-948	35075	10	6-203	24-294	35173	28	7-428	2-432	35245	25	13-192	9-193	35317	8	19-850	14-887
35004	15	13-880	18-927	35076	8	8-022	24-384	35174	8	7-508	2-652	35246	8	14-762	9-780	35318	8	19-944	14-880
35005*	42	16-158	18-006	35077*	37	10-413	24-260	35175	11	9-098	2-122	35247	12	15-545	9-518	35319	8	22-192	14-984
35006	8	16-948	18-444	35078	8	12-293	24-434	35176	8	15-853	2-752	35248*	135	17-164	9-130	35320	8	25-354	14-412
35007	14	17-862	18-802	35079	10	15-336	24-074	35177*	34	16-445	2-633	35249	21	20-146	9-614	35321	12	25-728	14-660
35008	14	19-504	18-116	35080	10	16-412	24-002	35178	32	16-685	2-016	35250	8	22-906	9-508	35322	9	3-536	15-944
35009	8	20-961	18-400	35081	10	16-512	24-363	35179	17	17-486	2-999	35251	27	23-200	9-627	35323	32	8-573	15-580
35010	27	21-589	18-430	35082	11	16-640	24-671	35180	75	20-655	2-516	35252	12	25-350	9-909	35324	16	10-478	15-298
35011	8	22-372	18-729	35083	36	18-006	24-452	35181*	47	21-132	2-881	35253	49	0-088	10-340	35325*	51	21-280	15-572
35012	8	23-860	18-104	35084*	66	18-314	24-451	35182	8	23-294	2-744	35254	9	0-333	10-425	35326	9	23-136	15-892
35013	8	0-086	19-640	35085	10	19-526	24-995	35183	8	0-540	3-969	35255	8	0-400	10-786	35327	8	25-084	15-023
35014	9	0-160	19-089	35086	25	19-554	24-070	35184	8	0-953	3-090	35256	8	0-802	10-968	35328	30	25-230	15-675
35015	18	0-250	19-729	35087	8	19-653	24-148	35185	21	2-144	3-243	35257	9	1-572	10-769	35329	14	2-815	16-880
35016	39	1-485	19-776	35088	18	20-402	24-742	35186*	80	2-888	3-811	35258	8	2-551	10-350	35330	30	5-388	16-905
35017	8	1-806	19-613	35089	8	20-776	24-762	35187	20	5-137	3-428	35259	13	3-226	10-604	35331	34	7-966	16-010
35018	8	8-966	19-735	35090	15	21-059	24-144	35188	10	7-212	3-264	35260	37	3-984	10-776	35332	39	9-400	16-926
35019	24	9-014	19-016	35091	8	22-197	24-378	35189	9	7-888	3-200	35261	9	5-789	10-309	35333*	44	10-275	16-606
35020	8	10-309	19-394	35092	17	23-503	24-823	35190	8	9-194	3-489	35262	9	9-904	10-911	35334	8	16-783	16-109
35021	19	10-783	19-581	35093	18	25-041	24-634	35191	40	13-376	3-833	35263	15	11-712	10-892	35335	10	16-799	16-256
35022	11	13-177	19-042	35094	8	4-688	25-236	35192	13	17-845	3-291	35264	9	12-015	10-476	35336	8	17-501	16-668
35023	35	17-889	19-086	35095	10	4-864	25-713	35193	8	18-861	3-970	35265	8	13-377	10-566	35337	34	20-661	16-724
35024	8	19-070	19-225	35096	10	5-188	25-450	35194	24	22-009	3-646	35266	8	18-306	10-174	35338	11	21-100	16-463
35025	9	19-670	19-984	35097	15	10-644	25-436	35195	34	22-622	3-110	35267	11	19-506	10-843	35339	8	21-736	16-926
35026	20	19-721	19-018	35098	12	10-770	25-528	35196	11	2-635	4-636	35268*	66	0-906	11-926	35340	36	25-980	16-726
35027	12	22-581	19-600	35099	8	15-712	25-376	35197	46	3-564	4-584	35269	12	3-523	11-997	35341	8	6-586	17-908
35028	8	23-510	19-580	35100	22	24-668	25-161	35198	8	7-425	4-278	35270	23	4-832	11-856	35342	8	7-126	17-526
35029	13	23-911	19-029					35199	38	7-893	4-722	35271	46	5-380	11-295	35343*	50	11-542	17-918
35030	13	23-950	19-066					35200	8	16-504	4-631	35272	34	6-587	11-416	35344	20	16-976	17-232
35031	10	24-744	19-780					35201	16	20-862	4-760	35273	10	6-755	11-619	35345	8	19-832	17-358
35032	20	3-948	20-286					35202	31	21-824	4-554	35274	40	6-834	11-604	35346	8	22-029	17-210
35033	40	4-293	20-173					35203	8	2-751	5-856	35275	10	8-334	11-954	35347	8	25-490	17-068
35034	8	5-980	20-355					35204	19	10-945	5-476	35276	17	11-316	11-918	35348	42	0-114	18-260
35035	8	7-770	20-918					35205	9	16-392	5-377	35277	8	11-804	11-582	35349	40	0-878	18-245
35036	20	9-306	20-748					35206	8	16-506	5-252	35278	22	19-290	11-711	35350	27	8-970	18-074
35037	10	10-576	20-270					35207	13	18-668	5-312	35279	30	19-532	11-362	35351	14	10-827	18-248
35038	12	10-918	20-283					35208	11	20-935	5-324	35280	38	20-180	11-394	35352	8	12-714	18-550
35039	8	15-652	20-307					35209	8	2-495	6-462	35281	38	20-364	11-338	35353	11	17-438	18-950
35040	26	19-462	20-120					35210	35	7-016	6-514	35282	31	21-165	11-753	35354	8	20-398	18-873
35041	11	22-336	20-064					35211	8	8-860	6-334	35283	8	21-832	11-436	35355	8	25-864	18-328
35042	9	2-288	21-993					35212	8	9-962	6-388	35284	15	21-955	11-828	35356	15	1-758	19-446
35043*	64	2-644	21-734					35213	38	15-048	6-668	35285	29	24-594	11-135	35357	14	1-800	19-483
35044*	68	5-511	21-218					35214	14	18-183	6-556	35286	11	0-196	12-774	35358	16	5-073	19-320
35045	11	7-755	21-596					35215*	52	18-644	6-777	35287*	41	10-740	12-364	35359*	36	5-169	19-264
35046	8	8-050	21-730					35216	15	19-036	6-495	35288	17	12-085	12-684	35360	25	8-200	19-276
35047	8	8-744	21-336					35217*	50	22-368	6-415	35289	16	12-581	12-080	35361	23	11-805	19-097
35048	18	12-200	21-885					35218	31	24-128	6-406	35290	37	14-368	12-785	35362	32	12-854	19-350
35049	12	13-149	21-006					35219	40	0-706	7-078	35291	38	16-676	12-550	35363	29	13-538	19-298
35050	16	14-225	21-510					35220	11	1-858	7-530	35292*	50	16-856	12-474	35364	9	15-70	

35372	32	10°560	20°734	35456	40	5°962	1°191	35528	14	20°502	13°386	35600	16	6°985	25°840	35692	8	21°761	5°866
35373	14	10°700	20°394	35457	12	15°936	1°776	35529	24	23°702	13°740	35601	8	7°092	25°962	35693	20	23°357	3°320
35374	8	11°925	20°522	35458	17	18°344	1°502	35530	11	21°985	14°322	35602	13	11°500	25°184	35694	9	24°295	3°919
35375*	58	19°134	20°700	35459	9	18°827	1°259	35531	10	22°069	14°314	35603	40	18°407	25°376	35695	14	24°685	3°829
35376	12	20°724	20°950	35460	34	6°394	2°963	35532	11	22°134	14°494	35604	12	19°742	25°651	35696	10	0°397	4°009
35377	8	7°103	21°571	35461	17	7°776	2°441	35533	13	22°225	14°748	35605	13	22°195	25°574	35697*	48	6°667	4°438
35378	24	15°696	21°624	35462	8	10°866	2°054	35534	8	24°226	14°674	35606	56	22°787	25°402	35698	8	7°022	4°098
35379	10	16°674	21°568	35463	14	15°884	2°361	35535	16	25°349	14°494					35699	38	9°656	4°610
35380	9	17°684	21°396	35464	11	21°046	2°607	35536	11	3°024	15°526					35700	11	11°320	4°814
35381	8	19°117	21°297	35465	34	23°346	2°596	35537	22	4°652	15°852					35701	8	13°226	4°289
35382	8	21°908	21°606	35466	22	0°218	3°000	35538	16	7°794	16°568					35702	30	15°034	4°672
35383	11	22°264	21°234	35467*	58	11°372	3°407	35539*	38	5°995	16°223					35703	18	15°473	4°605
35384	13	23°284	21°184	35468	8	12°668	3°874	35540*	72	8°162	16°214					35704	24	15°876	4°118
35385	11	1°274	22°334	35469	12	18°956	3°722	35541	12	8°198	16°714					35705	9	15°970	4°610
35386	18	5°424	22°804	35470	40	21°917	3°065	35542*	37	9°066	16°852					35706	8	16°385	4°837
35387	16	8°868	22°858	35471	8	22°725	3°846	35543	9	10°314	16°382					35707	42	16°686	4°378
35388	42	9°530	22°086	35472	36	6°462	4°845	35544	28	13°750	16°274					35708	8	19°907	4°926
35389	14	9°720	22°276	35473	10	8°834	4°744	35545	24	16°715	16°966					35709	8	6°567	5°478
35390	9	12°933	22°848	35474	20	11°453	4°635	35546	26	19°995	16°054					35710	14	11°740	5°054
35391	8	3°438	23°642	35475	11	21°744	4°919	35547	17	23°894	16°214					35711	8	15°807	5°192
35392	15	6°824	23°150	35476	22	9°572	5°292	35548	25	5°502	17°332					35712	11	18°988	5°420
35393	8	12°050	23°186	35477	16	18°811	5°200	35549	10	7°058	17°028					35713	8	19°338	5°431
35394	39	17°135	23°090	35478	10	19°680	5°676	35550	16	11°384	17°818					35714	36	23°026	5°356
35395*	47	19°425	23°760	35479	10	19°716	5°262	35551	14	11°852	17°996					35715	30	24°780	5°456
35396	10	23°220	23°648	35480	44	0°016	6°312	35552*	44	16°938	17°910					35716	8	25°208	5°248
35397	48	25°566	23°225	35481	13	1°778	6°276	35553*	78	18°766	17°734					35717	10	0°126	6°910
35398	21	1°278	24°370	35482	34	4°239	6°113	35554*	42	19°330	17°125					35718	15	0°738	6°240
35399	8	4°536	24°274	35483	12	7°985	6°815	35555	12	19°388	17°675					35719	10	1°756	6°820
35400	8	6°814	24°070	35484	19	14°944	6°775	35556	8	24°072	17°484					35720	8	3°510	6°723
35401	10	8°370	24°373	35485	9	22°424	6°750	35557	10	3°702	18°174					35721*	63	14°863	6°446
35402	21	8°958	24°234	35486	13	23°043	6°086	35558	16	6°422	18°335					35722*	100	14°932	6°474
35403*	43	9°374	24°483	35487	12	2°128	7°895	35559*	58	9°479	18°534					35723	10	17°700	6°501
35404	9	10°781	24°863	35488	8	4°356	7°518	35560*	24	15°850	18°535					35724	13	17°880	6°554
35405	36	12°414	24°830	35489	12	6°752	7°626	35561	19	17°253	18°956					35725	17	20°964	6°878
35406*	50	14°175	24°660	35490	13	10°814	7°448	35562*	19	19°921	18°458					35726	10	2°384	7°326
35407	8	17°712	24°268	35491	15	11°627	7°401	35563	18	20°635	18°914					35727	13	3°914	7°688
35408	8	24°308	24°322	35492	10	12°024	7°204	35564	12	21°732	18°315					35728	8	4°789	7°616
35409	24	24°992	24°316	35493	20	14°689	7°448	35565	14	23°496	18°726					35729	17	9°695	7°980
35410	30	1°414	25°246	35494	13	18°106	7°815	35566	11	3°116	19°814					35730	8	11°807	7°697
35411	34	2°584	25°572	35495*	40	20°706	7°008	35567	29	4°048	19°186					35731	8	13°170	7°180
35412	34	3°550	25°032	35496	10	3°041	8°941	35568	28	16°314	19°412					35732	9	13°672	7°873
35413	32	3°958	25°267	35497	9	5°296	8°592	35569	18	17°682	19°585					35733	8	20°792	7°618
35414	36	10°784	25°350	35498	12	15°422	8°054	35570	12	21°880	19°438					35734	12	22°203	7°250
35415	42	15°432	25°666	35499*	78	16°064	8°558	35571	8	25°116	19°934					35735	13	24°254	7°440
35416	36	18°100	25°408	35500	32	18°593	8°349	35572	15	25°802	19°558					35736	8	4°756	8°580
35417	9	19°894	25°800	35501	15	0°808	9°508	35573*	44	7°656	20°037					35737	10	6°277	8°500
35418	9	20°115	25°294	35502	11	4°954	9°454	35574	13	11°835	20°202					35738	8	7°593	8°958
35419	10	21°480	25°022	35503*	67	7°471	9°146	35575	13	16°393	20°435					35739	19	9°078	8°725
				35504	34	7°915	9°425	35576	9	0°142	21°134					35740	8	9°242	8°154
				35505*	72	9°092	9°360	35577	9	1°162	21°074					35741*	36	10°482	8°380
				35506	13	12°475	9°466	35578	17	6°042	21°362					35742	13	11°560	8°118
				35507	16	17°751	9°592	35579	11	7°304	21°854					35743	8	13°698	8°628
				35508	12	19°444	9°976	35580	11	11°621	21°702					35744	8	13°843	8°538
				35509	10	21°415	9°719	35581	10	17°053	21°658					35745	8	14°656	8°820
				35510	18	21°913	9°977	35582	8	7°328	22°724					35746	15	15°982	8°347
				35511	12	2°117	10°897	35583	8	9°551	22°586					35747	9	16°110	8°242
				35512	16	7°124	10°924	35584	12	10°412	22°615					35748	8	20°272	8°346
				35513	19	8°202	11°112	35585	11	13°262	22°109					35749*	55	21°067	8°882
				35514*	80	10°800	11°874	35586	31	25°026	22°206					35750	8	8°330	9°246
				35515	22	10°974	11°764	35587	36	3°475	23°073					35751	8	11°504	9°944
				35516*	36	12°100	11°100	35588*	36	5°838	23°558					35752	39	13°541	9°240
				35517	15	12°925	11°136	35589	9	10°591	23°976					35753	15	14°373	9°227
				35518	9	14°204	11°538	35590	26	12°525	23°816					35754	12	14°941	9°064
				35519	15	3°148	12°300	35591	10	17°462	23°015					35755	8	15°462	9°201
				35520	12	4°398	12°525	35592	20	22°542	23°598					35756	15	17°884	9°054
				35521	22	15°913	12°360	35593	12	22°724	23°210					35757	43	21°668	9°804
				35522	26	17°696	12°086	35594	11	23°957	23°304					35758	8	23°394	9°058
				35523	9	23°143	12°250	35595	21	25°044	23°749					35759	25	23°677	9°850
				35524	10	25°513	12°244	35596	14	2°919	24°174					35760	8	2°340	10°660
				35525*	36	1°626	13°824	35597	8	18°528	24°542					35761	9	5°177	10°929
				35526	13	3°376	13°752	35598	13	22°198	24°388					35762	17	7°512	10°522
				35527	14	18°794	13°262	35599	36	23°394	24°238					35763	12	8°877	10°830

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35764	8	9-214	10-233	35836	35	5-294	16-475	35908	11	23-634	22-976	35961	9	16-092	0-526	36033	12	14-606	8-531
35765	16	9-505	10-245	35837	10	8-516	16-779	35909	27	0-422	23-751	35962	36	13-121	1-344	36034	9	16-046	8-311
35766	8	10-790	10-953	35838	9	9-236	16-622	35910	17	0-600	23-362	35963	12	16-476	1-924	36035	13	16-804	8-427
35767	11	13-163	10-019	35839	23	10-986	16-582	35911	13	1-836	23-445	35964	36	3-683	2-811	36036	9	18-975	8-474
35768	10	13-262	10-566	35840	25	14-794	16-220	35912	22	2-927	23-875	35965	12	5-044	2-585	36037	8	1-068	9-596
35769	9	13-698	10-304	35841	8	15-761	16-718	35913	30	4-530	23-536	35966	8	6-612	2-646	36038	8	6-478	9-537
35770*	62	17-088	10-168	35842	8	18-491	16-279	35914	10	6-678	23-756	35967	8	7-371	2-220	36039	24	7-537	9-560
35771	20	20-102	10-392	35843	8	19-760	16-905	35915	9	9-414	23-200	35968	8	9-393	2-556	36040	26	8-332	9-790
35772	18	21-788	10-980	35844	8	20-900	16-745	35916	19	9-908	23-516	35969	12	11-135	2-365	36041	8	15-994	9-296
35773	20	22-130	10-588	35845	28	21-814	16-441	35917	12	12-218	23-614	35970	8	15-136	2-472	36042	20	17-282	9-032
35774	8	7-232	11-660	35846	11	22-340	16-217	35918	24	12-576	23-097	35971	10	20-215	2-205	36043	12	17-656	9-172
35775	9	9-726	11-050	35847	10	1-887	17-628	35919	21	14-654	23-060	35972*	56	20-486	2-050	36044	9	17-823	9-824
35776*	68	12-768	11-938	35848	8	3-936	17-546	35920	22	16-870	23-190	35973	34	23-065	2-215	36045	8	19-776	9-194
35777	8	14-299	11-245	35849*	52	9-160	17-104	35921*	44	18-028	23-266	35974*	64	23-262	2-686	36046	17	20-195	9-434
35778	14	17-115	11-980	35850	10	14-940	17-830	35922	13	19-569	23-994	35975	24	0-974	3-856	36047	32	21-629	9-886
35779	11	18-640	11-490	35851	23	16-506	17-429	35923	14	0-090	24-549	35976	14	5-514	3-929	36048	8	22-118	9-270
35780	24	19-266	11-416	35852	8	16-856	17-188	35924	8	1-267	24-681	35977	32	6-034	3-350	36049	76	25-272	9-524
35781	8	20-742	11-704	35853	8	17-658	17-880	35925	46	1-276	24-385	35978*	46	6-450	3-212	36050	22	1-354	10-384
35782	12	24-173	11-114	35854	8	17-972	17-525	35926	8	3-645	24-058	35979	8	10-100	3-000	36051	8	4-696	10-644
35783	18	25-446	11-106	35855	8	19-320	17-930	35927	8	4-720	24-888	35980	8	10-256	3-213	36052	26	5-342	10-332
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35786*	53	5-170	12-960	35858	18	3-950	18-744	35930	8	13-031	24-279	35983	10	13-978	3-638	36055	12	17-672	10-390
35787	10	5-441	12-542	35859	24	4-080	18-494	35931	9	18-012	24-690	35984*	50	19-672	3-791	36056	8	17-941	10-500
35788	8	7-138	12-106	35860	8	4-080	18-105	35932	11	19-010	24-215	35985*	8	23-358	3-676	36057	10	18-479	10-406
35789*	40	18-323	12-420	35861	23	9-300	18-266	35933	10	20-730	24-530	35986	17	24-114	3-457	36058	17	19-065	10-356
35790	10	18-660	12-590	35862	8	9-316	18-329	35934	10	23-847	24-262	35987	32	24-430	3-238	36059	8	20-286	10-912
35791	14	20-638	12-292	35863	8	13-208	18-850	35935	16	0-100	25-729	35988	12	24-626	3-667	36060	32	21-688	10-156
35792*	42	22-960	12-920	35864	17	22-364	18-120	35936	68	0-682	25-555	35989	11	1-914	4-444	36061	11	24-884	10-240
35793	8	23-578	12-828	35865	41	22-372	18-332	35937	22	4-022	25-895	35990	22	2-306	4-354	36062	10	1-864	11-637
35794	8	25-970	12-202	35866	15	25-314	18-853	35938	10	4-272	25-617	35991	8	4-098	4-824	36063	14	3-135	11-624
35795	27	1-478	13-888	35867	12	25-327	18-690	35939	8	6-810	25-584	35992	8	10-708	4-872	36064	17	4-391	11-576
35796	8	2-232	13-212	35868	15	3-638	19-680	35940	8	9-725	25-388	35993	20	16-836	4-854	36065	8	6-154	11-786
35797*	44	6-615	13-742	35869	8	7-854	19-694	35941	8	11-836	25-799	35994	8	17-693	4-937	36066	22	6-627	11-115
35798	12	12-480	13-848	35870	16	10-215	19-910	35942	8	17-920	25-255	35995	28	18-046	4-000	36067	8	11-744	11-864
35799	10	12-666	13-410	35871	8	10-926	19-696	35943	73	21-306	25-117	35996	19	20-166	4-197	36068	8	13-488	11-254
35800	10	14-278	13-877	35872	8	11-476	19-122					35997	14	20-493	4-214	36069	10	14-329	11-116
35801	8	15-698	13-322	35873	43	15-903	19-207					35998	24	20-566	4-827	36070	8	15-795	11-112
35802	8	16-330	13-727	35874*	46	19-050	19-268					35999	8	20-680	4-771	36071*	56	17-216	11-604
35803	8	16-785	13-726	35875	9	19-546	19-578					36000	36	0-658	5-894	36072	14	21-164	11-232
35804	8	22-429	13-964	35876	8	20-914	19-082					36001	30	2-414	5-976	36073	12	22-252	11-134
35805	13	0-012	14-910	35877	19	23-560	19-440					36002	8	6-546	5-575	36074	8	23-606	11-566
35806	19	3-133	14-621	35878	8	24-872	19-248					36003	8	7-857	5-236	36075	8	1-714	12-525
35807	21	3-882	14-747	35879	50	25-802	19-936					36004	8	10-646	5-223	36076	8	3-673	12-801
35808	25	6-468	14-962	35880	8	0-304	20-492					36005*	58	13-056	5-108	36077	8	5-977	12-684
35809	13	7-092	14-095	35881	11	2-957	20-062					36006	8	13-088	5-188	36078	36	9-821	12-366
35810	33	7-744	14-311	35882	22	7-396	20-311					36007*	36	14-295	5-115	36079	14	10-564	12-814
35811	12	10-500	14-909	35883	10	8-510	20-163					36008	12	17-858	5-772	36080	8	12-622	12-026
35812	16	10-602	14-094	35884	13	9-253	20-610					36009*	38	22-556	5-423	36081	8	17-806	12-548
35813	8	14-610	14-748	35885	25	12-151	20-970					36010	9	23-145	5-776	36082	20	20-974	12-256
35814	21	17-470	14-990	35886	8	12-324	20-009					36011	8	25-252	5-417	36083	20	22-648	12-016
35815	11	18-982	14-168	35887	24	19-720	20-926					36012	12	4-137	6-904	36084	8	22-950	12-606
35816	8	19-364	14-088	35888	16	20-358	20-838					36013	9	4-248	6-264	36085	12	23-706	12-847
35817*	46	21-076	14-832	35889	11	22-016	20-374					36014	9	4-332	6-524	36086	44	25-754	12-184
35818	8	25-126	14-724	35890	12	24-860	20-230					36015	9	6-722	6-459	36087	36	0-666	13-458
35819	8	25-930	14-504	35891	8	5-825	21-362					36016	10	9-244	6-334	36088	8	1-288	13-361
35820	11	1-704	15-344	35892	31	6-340	21-492					36017	9	9-323	6-304	36089	8	6-582	13-804
35821	8	4-174	15-326	35893	14	8-052	21-582					36018	9	16-196	6-648	36090	18	8-268	13-414
35822	10	4-984	15-056	35894	17	8-078	21-576					36019	8	17-965	6-478	36091	12	9-336	13-235
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35824	10	7-626	15-508	35896	9	13-347	21-312					36021	11	1-906	7-966	36093	18	15-985	13-238
35825	23	8-668	15-738	35897	8	17-409	21-491					36022	8	4-638	7-762	36094	14	19-076	13-806
35826	8	12-384	15-571	35898	8	17-841	21-610					36023	8	7-366	7-567	36095	8	19-441	13-682
35827	14	12-422	15-110	35899	13	20-234	21-500					36024	8	9-386	7-475	36096	8	19-918	13-426
35828	9	15-456	15-418	35900	10	22-268	21-482					36025	8	11-214	7-328	36097	8	21-228	13-522
35829	15	17-397	15-718	35901	37	2-890	22-332					36026*	52	12-541	7-924	36098	12	21-424	13-080
35830	10	17-996	15-062																

R.A. 18 <sup>h</sup> 4 <sup>m</sup>									
Plate 653; 1916 March 29.									
Provisional Constants.									
A B C									
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D E F									
-00583 - 02583 - 1367									
Mag. = 17.5 - 1.05 $\sqrt{d}$									
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36106	26	16-306	14-906	36178	17	6-226	21-774	36308	40
36107	11	17-152	14-398	36179	8	8-176	21-885	36309	10
36108	8	17-884	14-216	36180	8	10-084	21-713	36310	8
36109	10	21-636	14-186	36181	11	10-542	21-444	36311	8
36110	31	1-724	15-896	36182	24	11-538	21-014	36312	8
36111	8	2-854	15-242	36183	8	11-990	21-034	36313	14
36112	11	3-656	15-014	36184	8	18-928	21-206	36314	10
36113	30	11-586	15-481	36185	8	20-065	21-634	36315	9
36114	9	11-678	15-386	36186	30	20-409	21-166	36316	24
36115	8	11-848	15-526	36187	8	0-064	22-026	36317	22
36116	8	14-098	15-747	36188	13	0-165	22-872	36318	38
36117	8	14-993	15-194	36189	19	5-574	22-092	36319	8
36118	8	18-106	15-258	36190	10	11-218	22-884	36320	8
36119	11	20-872	15-378	36191	24	13-152	22-116	36321	8
36120	12	25-496	15-744	36192	20	13-306	22-338	36322	32
36121	10	0-083	16-763	36193	12	14-976	22-952	36323	13
36122	26	4-491	16-808	36194	8	15-203	22-624	36324	8
36123	8	5-229	16-712	36195	8	16-198	22-014	36325	23
36124	22	10-945	16-884	36196	18	17-049	22-706	36326	116
36125	8	11-464	16-368	36197	8	19-906	22-546	36327	8
36126	28	11-906	16-622	36198	8	0-808	23-603	36328	33
36127	20	12-145	16-855	36199	9	1-446	23-506	36329	8
36128	8	12-862	16-654	36200	12	4-010	23-598	36330	8
36129	8	17-201	16-885	36201	40	5-478	23-890	36331	8
36130	16	19-016	16-674	36202	8	6-223	23-710	36332	40
36131	11	21-582	16-884	36203	20	8-361	23-456	36333	40
36132	11	23-539	16-718	36204	22	8-372	23-984	36334	15
36133	56	25-290	16-146	36205	38	8-606	23-734	36335	54
36134	11	25-827	16-519	36206	56	9-924	23-836	36336	12
36135	10	4-701	17-304	36207	28	13-784	23-678	36337	8
36136	8	5-770	17-462	36208	10	13-986	23-844	36338	16
36137	14	11-443	17-124	36209	36	14-706	23-395	36339	16
36138	32	13-452	17-145	36210	30	16-736	23-475	36340	8
36139	8	17-336	17-640	36211	8	18-159	23-580	36341	8
36140	17	17-472	17-136	36212	8	19-131	23-462	36342	8
36141	34	17-718	17-973	36213	12	19-148	23-554	36343	8
36142	8	18-224	17-782	36214	24	20-064	23-410	36344	8
36143	8	22-546	17-654	36215	34	23-750	23-005	36345	8
36144	56	24-458	17-936	36216	11	1-672	24-792	36346	10
36145	16	0-124	18-663	36217	18	5-035	24-578	36347	32
36146	38	0-132	18-876	36218	12	5-625	24-094	36348	58
36147	16	2-826	18-206	36219	7	6-968	24-914	36349	8
36148	9	3-008	18-234	36220	24	8-095	24-715	36350	56
36149	8	4-666	18-494	36221	32	8-688	24-737	36351	36
36150	14	4-890	18-865	36222	8	12-686	24-054	36352	8
36151	16	6-156	18-064	36223	36	16-348	24-409	36353	40
36152	10	7-230	18-054	36224	12	19-218	24-655	36354	9
36153	19	1-332	19-972	36225	17	19-584	24-484	36355	9
36154	17	3-084	19-366	36226	8	21-777	24-182	36356	9
36155	13	3-094	19-206	36227	9	22-352	24-893	36357	8
36156	22	4-892	19-822	36228	14	24-884	24-482	36358	37
36157	14	8-224	19-366	36229	8	4-662	25-342	36359	12
36158	13	8-596	19-224	36230	8	5-610	25-152	36360	8
36159	8	10-637	19-952	36231	36	10-574	25-605	36361	8
36160	8	12-925	19-978	36232	32	10-706	25-519	36362	41
36161	9	13-754	19-873	36233	20	10-874	25-776	36363	8
36162	8	15-055	19-028	36234	29	12-314	25-426	36364	41
36163	8	16-036	18-865	36235	9	14-114	25-142	36365	8
36164	9	16-698	19-494	36236	11	16-942	25-284	36366	8
36165	60	17-726	19-076					36367	43
36166	36	22-046	19-702					36368	76
36167	12	2-647	20-732					36369	10
36168	40	3-576	20-446					36370	11
36169	10	4-602	20-345					36371	9
36170	8	5-099	20-664					36372	53
36171	9	5-759	20-276					36373	10
36172	14	6-598	20-932					36374	40
36173	10	8-285	20-236					36375	45
36174	11	15-898	20-849					36376	9
36175	10	19-216	20-971					36377	120
36176	8	25-943	20-277					36378	8

R.A. 13 <sup>h</sup> 12 <sup>m</sup>				R.A. 13 <sup>h</sup> 20 <sup>m</sup>			
Plate 718; 1916 May 6.				Plate 680; 1916 April 11.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-02581	+00451	+2385		-02549	+00848	+1884	
D	E	F		D	E	F	
-00455	-02608	-2413		-00856	-02595	-2913	
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No.	d	x	y	No.	d	x	y
36501	11	0.954	0.935	36801	11	4.266	0.602
36502	9	3.539	0.828	36802	19	8.323	0.454
36503	8	5.780	0.556	36803	9	9.044	0.385
36504*	45	7.348	0.030	36804	8	14.884	0.304
36505	20	9.734	0.426	36805	10	17.005	0.074
36506	10	14.399	0.561	36806	8	20.876	0.578
36507	8	14.884	0.521	36807	35	22.014	0.803
36508	8	16.462	0.533	36808	19	22.396	0.624
36509	20	1.535	1.317	36809	10	24.805	0.706
36510	19	4.225	1.810	36810	8	4.090	1.545
36511	11	5.106	1.106	36811	8	7.585	1.065
36512	9	20.650	1.890	36812	12	7.876	1.996
36513	8	21.820	1.830	36813	8	10.721	1.940
36514	11	2.606	2.953	36814	8	12.444	1.215
36515	21	4.690	2.913	36815	27	13.100	1.700
36516	13	5.714	2.371	36816	23	13.498	1.266
36517	30	14.727	2.409	36817	20	15.686	1.944
36518	13	15.150	2.869	36818	22	16.345	1.976
36519	9	17.280	2.581	36819	9	20.434	1.921
36520	8	18.698	2.333	36820	13	24.465	1.116
36521	17	4.215	3.522	36821	16	6.185	2.288
36522*	40	5.356	3.324	36822	10	12.064	2.583
36523	8	9.410	3.340	36823	14	12.238	2.272
36524	8	14.575	3.583	36824	12	14.539	2.685
36525	11	15.856	3.738	36825	20	16.426	2.618
36526	9	16.464	3.309	36826	10	18.726	2.451
36527	12	21.040	3.646	36827	8	18.893	2.329
36528	8	21.603	3.575	36828	10	24.176	2.911
36529	14	23.754	3.323	36829	8	25.746	2.330
36530	8	3.692	4.268	36830	8	1.060	3.429
36531	12	13.334	4.392	36831	11	1.371	3.377
36532	8	15.584	4.475	36832*	100	6.346	3.116
36533	19	16.512	4.562	36833	8	9.075	3.896
36534	20	21.720	4.684	36834	14	13.984	3.821
36535	14	21.813	4.302	36835	20	17.626	3.111
36536	20	0.066	5.200	36836	8	17.778	3.882
36537	8	3.252	5.210	36837	14	23.031	3.695
36538	16	5.455	5.998	36838	20	24.455	3.294
36539	8	9.663	5.757	36839	10	25.002	3.220
36540	14	10.866	5.636	36840	10	25.535	3.568
36541	9	11.167	5.630	36841	8	6.042	4.947
36542*	43	12.282	5.066	36842	20	6.276	4.316
36543	13	12.624	5.858	36843	10	6.426	4.243
36544	8	13.473	5.858	36844*	40	6.540	4.485
36545	20	20.167	5.604	36845	8	13.840	4.176
36546	24	21.924	5.238	36846	20	3.205	5.101
36547	23	25.564	5.072	36847*	40	3.712	5.418
36548	8	0.609	6.436	36848	10	4.390	5.184
36549	24	3.712	6.630	36849	8	10.696	5.570
36550	8	6.470	6.886	36850	8	14.149	5.907
36551	17	7.843	6.136	36851	9	14.686	5.240
36552	8	13.224	6.160	36852	8	15.461	5.008
36553	8	13.440	6.710	36853	8	17.531	5.855
36554	22	15.914	6.888	36854*	65	17.953	5.325
36555	10	19.565	6.458	36855	8	22.762	5.254



( 107 )

37228	11	14-879	12-006	37300	13	20-750	18-200	37372	12	3-338	24-452	37430	8	15-084	2-891	37502	14	6-844	11-108
37229	17	22-412	12-963	37301	8	21-500	18-569	37373*	86	6-120	24-634	37431	8	19-838	2-372	37503*	38	7-282	11-038
37230	14	24-300	12-704	37302	14	25-502	18-496	37374	17	17-110	24-746	37432	9	1-125	3-305	37504	12	10-492	11-135
37231	10	24-634	12-992	37303	8	0-706	19-911	37375	8	18-476	24-510	37433	12	3-633	3-497	37505	8	16-178	11-128
37232	8	25-635	12-647	37304	10	1-937	19-464	37376	11	21-310	24-365	37434	12	8-354	3-610	37506	16	22-980	11-712
37233	15	2-882	13-688	37305	8	2-842	19-281	37377*	26	21-482	24-922	37435	10	9-136	3-171	37507	8	0-089	12-677
37234	8	3-658	13-626	37306	9	2-860	19-488	37378	25	22-530	24-330	37436	32	9-812	3-344	37508	11	0-333	12-866
37235	8	4-367	13-394	37307	10	3-720	19-640	37379	8	23-890	24-723	37437	10	17-458	3-742	37509	9	3-408	12-052
37236	9	5-399	13-323	37308	14	5-669	19-700	37380	11	4-316	25-702	37438*	48	20-387	3-116	37510	8	7-754	12-644
37237	13	6-410	13-402	37309*	38	6-926	19-087	37381	15	7-682	25-884	37439	23	22-945	3-559	37511	9	8-864	12-762
37238	10	9-334	13-528	37310	33	9-304	19-040	37382	8	11-005	25-314	37440*	42	22-995	3-498	37512	36	9-506	12-452
37239	9	11-340	13-082	37311	8	15-126	19-254	37383	9	12-259	25-258	37441	9	23-135	3-812	37513*	72	12-046	12-932
37240	9	11-698	13-460	37312*	77	15-620	19-310	37384	8	13-022	25-120	37442*	36	2-806	4-218	37514	8	17-087	12-824
37241	8	12-378	13-815	37313	10	17-600	19-368	37385	12	14-280	25-840	37443	32	8-357	4-244	37515	11	18-013	12-737
37242	12	16-870	13-312	37314	9	19-682	19-847	37386	14	15-364	25-366	37444*	73	9-562	4-036	37516	26	19-824	12-452
37243	9	17-726	13-452	37315	8	19-839	19-973	37387	22	21-246	25-995	37445	20	12-914	4-440	37517	13	22-076	12-617
37244	8	22-212	13-226	37316	33	20-152	19-147	37388	8	22-220	25-522	37446	8	13-623	4-936	37518	8	22-527	12-616
37245*	76	2-054	14-944	37317	8	21-401	19-307	37389	13	22-642	25-915	37447	14	17-154	4-436	37519	44	24-095	12-874
37246*	140	9-185	14-804	37318	17	0-450	20-132	37390	46	24-162	25-310	37448	10	17-399	4-756	37520	11	24-300	12-266
37247	10	19-961	14-776	37319	18	1-400	20-264					37449	9	17-835	4-986	37521	9	25-002	12-196
37248	28	20-286	14-733	37320	14	1-680	20-350					37450	8	21-886	4-125	37522	8	0-674	13-156
37249	8	20-360	14-466	37321	16	2-532	20-120					37451	12	0-180	5-916	37523	9	3-112	13-440
37250	15	21-366	14-352	37322	14	11-174	20-362					37452	8	2-287	5-016	37524	18	6-804	13-356
37251	8	23-484	14-307	37323	10	14-612	20-400					37453	8	10-134	5-660	37525	8	7-778	13-126
37252	15	0-452	15-294	37324	9	17-639	20-380					37454	8	12-552	5-004	37526	14	8-626	13-541
37253	8	2-610	15-034	37325	12	20-056	20-426					37455	8	12-923	5-966	37527	8	8-768	13-196
37254	8	4-230	15-950	37326	8	20-716	20-040					37456	16	16-678	5-994	37528	15	9-094	13-296
37255	18	7-429	15-050	37327	10	23-286	20-631					37457*	90	19-797	5-726	37529	8	11-690	13-138
37256	10	9-238	15-886	37328	10	5-808	21-290					37458	8	23-296	5-784	37530	8	13-416	13-594
37257	36	11-347	15-620	37329*	43	10-204	21-254					37459	11	2-883	6-064	37531	40	25-612	13-876
37258	8	12-496	15-334	37330*	55	11-930	21-020					37460	12	4-729	6-936	37532	11	3-632	14-160
37259	8	12-827	15-266	37331	8	13-284	21-047					37461	14	12-326	6-494	37533	8	4-264	14-285
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37261	10	20-237	15-332	37333	8	22-690	21-490					37463	30	16-794	6-414	37535	10	8-444	14-103
37262	17	20-439	15-288	37334	8	23-948	21-369					37464	17	18-822	6-692	37536	8	11-002	14-522
37263	15	21-244	15-848	37335	22	25-643	21-171					37465	8	20-975	6-621	37537	8	11-712	14-423
37264	16	21-912	15-014	37336	19	25-750	21-513					37466	20	24-551	6-814	37538	28	14-235	14-233
37265	11	22-302	15-150	37337	8	25-835	21-048					37467	68	24-095	6-574	37539	11	17-046	14-220
37266	9	22-704	15-544	37338	16	25-994	21-980					37468	8	0-143	6-706	37540	8	19-898	14-077
37267	8	25-979	15-788	37339	10	1-850	22-304					37469	10	0-463	7-596	37541	10	20-762	14-815
37268	10	0-046	16-630	37340	9	2-074	22-990					37470	8	2-294	7-112	37542	11	6-236	15-716
37269	25	2-926	16-248	37341	14	4-440	22-598					37471	8	7-336	7-390	37543	8	11-574	15-102
37270	8	6-900	16-409	37342	8	4-512	22-659					37472*	44	17-498	7-508	37544	24	13-986	15-016
37271	8	7-868	16-793	37343*	40	5-598	22-618					37473	10	21-242	7-822	37545	12	24-538	15-876
37272	10	9-540	16-954	37344	11	8-650	22-594					37474*	34	21-441	7-536	37546	36	0-295	16-854
37273	10	10-146	16-200	37345	27	8-912	22-200					37475	9	3-864	8-726	37547	8	6-058	16-624
37274	13	10-965	16-180	37346	27	17-511	22-670					37476	8	5-688	8-442	37548	8	12-902	16-875
37275	8	12-629	16-989	37347	11	18-378	22-235					37477	8	8-676	8-922	37549	36	14-963	16-807
37276	8	14-243	16-584	37348	10	19-532	22-464					37478	8	14-576	8-198	37550	8	17-049	16-590
37277	33	16-226	16-232	37349	13	19-784	22-383					37479	14	16-436	8-124	37551	8	17-234	16-744
37278	8	17-664	16-215	37350	17	22-462	22-760					37480	8	20-573	8-644	37552	16	18-014	16-942
37279	30	23-646	16-928	37351	17	25-186	22-397					37481	8	22-396	8-596	37553	16	19-328	16-404
37280	33	24-226	16-690	37352	40	0-306	23-100					37482	34	25-517	8-746	37554	16	20-598	16-892
37281	9	4-106	17-190	37353	19	1-808	23-040					37483	11	1-815	9-114	37555	17	24-481	16-882
37282	8	8-360	17-360	37354	26	4-104	23-470					37484	10	8-016	9-254	37556	18	24-566	16-418
37283	8	11-086	17-707	37355	9	6-370	23-932					37485	11	11-568	9-776	37557	8	1-297	17-775
37284	27	13-456	17-160	37356	9	7-115	23-764					37486	18	23-126	9-692	37558	8	2-199	17-683
37285	19	16-387	17-627	37357	18	8-690	23-352					37487	36	24-216	9-548	37559	8	2-728	17-276
37286	16	16-872	17-505	37358	25	8-972	23-866					37488	8	1-101	10-612	37560	50	8-144	17-575
37287	8	17-604	17-016	37359	11	11-222	23-242					37489	18	5-616	10-644	37561*	84	12-468	17-955
37288	12	22-875	17-256	37360	14	13-820	23-352					37490	8	7-045	10-708	37562	8	13-276	17-280
37289	8	25-217	17-624	37361	8	16-927	23-726					37491	12	7-727	10-456	37563	18	15-007	17-086
37290	8	2-400	18-900	37362	22	18-060	23-888					37492	8	10-614	10-350	37564	14	22-420	17-862
37291	12	3-164	18-338	37363	12	18-891	23-561					37493	24	10-660	10-569	37565	8	24-044	17-805
37292*	44	4-112	18-527	37364	10	19-058	23-548					37494	26	11-608	10-734	37566	12	1-594	18-646
37293	20	6-082	18-160	37365	8	20-532	23-908					37495	20	22-672	10-028	37567	22	2-558	18-994
37294	17	10-164	18-896	37366	38	23-886	23-500					37496	11	24-372	10-926	37568	8	7-192	18-609
37295	30	11-542	18-632	37367	13	0-260	24-460					37497	8	0-142	11-835	37569			

37574	14	9-095	19-915	R.A. 13 <sup>h</sup> 44 <sup>m</sup> Plate 665; 1916 April 4. Provisional Constants. A B C -02572 +00702 +1786 D E F -00734 -02603 -1944 Mag. = 16.2 - 1.05 $\sqrt{d}$	37706	23	22-346	3:355	37778	9	18-300	8-252	37850*	80	21-806	14-861		
37575	12	10-846	19-204		37707	9	22-900	3:800	37779	10	19-359	8-985	37851*	44	22-286	14-446		
37576*	52	12-065	19-755		37708	11	25-165	3:862	37780	8	19-834	8-714	37852*	18	22-680	14-996		
37577	18	16-216	19-024		37709	8	0-726	4:785	37781	20	21-210	8-074	37853*	9	23-976	14-906		
37578	10	20-697	19-254		37710	9	0-882	4:294	37782	8	21-862	8-180	37854*	10	25-352	14-440		
37579*	44	20-992	19-518		37711*	48	6-188	4:545	37783	15	22-584	8-795	37855*	9	14-365	15-673		
37580	8	21-333	19-715		37712*	80	7-250	4:938	37784	20	2-584	9-837	37856*	12	14-631	15-543		
37581	8	24-528	19-940		37713	8	10-638	4:426	37785	24	3-672	9-684	37857*	10	15-434	15-762		
37582*	62	2-186	20-407		37714	10	10-644	4:292	37786	9	6-003	9-326	37858*	12	17-098	15-232		
37583	24	2-636	20-943		37715*	21	14-283	4:673	37787	9	6-790	9-350	37859*	8	17-645	15-205		
37584*	48	3-036	20-364	37716	11	17-810	4:003	37788	9	8-184	9-526	37860	8	19-828	15-235			
37585	8	5-632	20-252	37717	29	18-044	4:715	37789	8	11-853	9-769	37861	9	20-280	15-600			
37586	8	6-326	20-409	37718	9	21-182	4:318	37790	9	14-024	9-420	37862	12	20-760	15-951			
37587	42	7-365	20-836	37719	9	21-782	4:901	37791	8	16-348	9-417	37863	10	25-001	15-750			
37588	8	7-368	20-104	37720	10	23-914	4:954	37792	8	21-304	9-154	37864	10	4-066	16-005			
37589	44	7-956	20-608	37721	13	23-944	4:312	37793	8	22-358	9-200	37865	12	4-100	16-548			
37590	8	11-952	20-856	37722	8	2-706	5-928	37794	21	23-917	9-530	37866	15	6-732	16-238			
37591	36	13-782	20-040	37723	8	6-355	5-440	37795	13	25-272	9-110	37867	16	16-184	16-566			
37592	8	14-133	20-255	37724	8	7-023	5-395	37796	20	2-134	10-180	37868	9	19-104	16-549			
37593	10	22-376	20-096	37725	11	12-928	5-329	37797*	42	7-280	10-211	37869	8	20-068	16-679			
37594	36	24-725	20-548	37726	10	14-135	5-552	37798	9	10-430	10-970	37870	8	20-717	16-746			
37595	8	0-006	21-284	37727	16	15-070	5-777	37799	8	17-522	10-902	37871	20	0-142	17-065			
37596	20	1-758	21-319	37728	9	17-065	5-127	37800	8	17-698	10-382	37872	8	3-594	17-940			
37597	16	1-872	21-659	37729	14	17-142	5-726	37801	13	17-935	10-226	37873	13	4-020	17-008			
37598	12	6-786	21-106	37730	10	17-168	5-725	37802*	60	18-784	10-740	37874	12	5-616	17-166			
37599	8	8-278	21-016	37731	9	17-408	5-145	37803	24	19-425	10-214	37875	11	9-338	17-886			
37600	29	10-548	21-370	37732	8	17-710	5-920	37804	10	19-968	10-266	37876	8	13-782	17-678			
37601	10	14-904	21-236	37733	9	20-630	5-552	37805	9	22-552	10-488	37877	8	15-346	17-215			
37602	17	16-312	21-032	37734	8	24-588	5-194	37806	14	2-460	11-838	37878	8	16-786	17-925			
37603	8	17-964	21-614	37735	37	25-513	5-875	37807	12	3-844	11-058	37879	10	21-115	17-467			
37604	24	21-285	21-028	37736	10	25-213	0-025	37737	11	0-400	6-790	37808	8	3-872	11-722			
37605	8	25-483	21-731	37737	8	25-385	0-500	37738	11	0-704	6-952	37809	12	5-989	11-750			
37606	8	25-667	21-165	37738	8	0-566	1-762	37739	8	2-968	6-096	37810	13	7-775	11-565			
37607	14	1-315	22-548	37739	8	0-810	1-748	37739	8	3-260	6-109	37811	8	14-176	11-723			
37608	9	2-120	22-127	37740	10	1-760	1-587	37740	17	3-975	6-945	37812	12	15-028	11-494			
37609	8	5-781	22-327	37741*	63	4-110	6-704	37813	12	15-978	11-424	37885	8	13-618	18-734			
37610	8	5-805	22-398	37742	11	4-396	1-438	37742	11	6-030	6-900	37814	22	20-388	11-298			
37611	20	13-442	22-475	37743	8	6-866	1-090	37743	8	6-807	6-788	37815	10	22-771	11-915			
37612*	36	13-925	22-804	37744	11	7-550	1-111	37744	11	6-816	6-400	37816	18	25-512	11-799			
37613	8	17-004	22-446	37745	36	8-145	1-688	37745	8	8-448	6-276	37817	14	1-570	12-778			
37614*	42	22-154	22-054	37746	8	11-275	1-524	37746	8	9-672	6-208	37818	8	2-018	12-771			
37615	11	24-386	22-655	37747	13	11-432	1-206	37747	8	13-918	6-719	37819	12	3-786	12-398			
37616	18	25-452	22-285	37748	8	13-060	1-258	37748	8	16-146	6-894	37820	10	4-487	12-324			
37617	36	0-025	23-670	37749	24	14-990	1-446	37749	8	19-375	6-520	37821	31	9-250	12-694			
37618	36	3-214	23-542	37750	22	16-813	1-250	37750	11	19-705	6-014	37822	13	9-583	12-258			
37619	8	6-318	23-344	37751	28	4-895	2-117	37751	9	20-678	6-080	37823	8	10-242	12-784			
37620	9	10-891	23-616	37752	12	6-846	2-579	37752	12	25-504	6-634	37824	9	13-242	12-056			
37621	16	12-362	23-064	37753	20	7-424	2-220	37753	10	0-676	7-987	37825	9	19-217	12-514			
37622	10	17-956	23-965	37754*	26	8-737	2-442	37754*	26	0-872	7-702	37826	10	19-442	12-014			
37623	8	18-239	23-602	37755	15	9-192	2-315	37755*	26	5-888	7-325	37827	8	19-600	12-510			
37624	13	18-544	23-426	37756	9	13-830	2-573	37756	10	5-936	7-185	37828	8	23-510	12-860			
37625	30	19-618	23-524	37757	11	18-198	2-893	37757	11	10-005	7-569	37829	11	25-264	12-675			
37626	8	19-909	23-818	37758	8	19-954	2-679	37758	9	10-820	7-552	37830	8	3-525	13-510			
37627	20	22-225	23-494	37759	12	21-155	2-185	37759	12	12-304	7-505	37831	32	3-586	13-012			
37628	8	2-334	24-676	37760	16	21-175	2-699	37760	14	14-847	7-100	37832	40	5-115	13-995			
37629	11	8-125	25-446	37761	12	22-561	2-002	37761	8	17-925	7-697	37833	12	7-895	13-075			
37630	14	9-144	24-772	37762	40	22-760	2-755	37762	17	18-398	7-060	37834*	60	8-712	13-283			
37631	8	9-690	24-316	37763	23	23-248	2-491	37763	10	18-399	7-874	37835	8	11-224	13-225			
37632	8	9-952	24-178	37764	24	23-555	2-245	37764	9	24-483	7-817	37836	8	12-602	13-128			
37633	10	16-842	24-702	37765	8	1-737	3-130	37765	9	0-014	8-818	37837	9	12-718	13-456			
37634	24	18-356	24-440	37766	23	2-330	3-709	37766	8	1-155	8-324	37838	9	13-424	13-488			
37635	38	0-316	25-475	37767*	40	2-378	3-648	37767	9	1-840	8-750	37839	15	20-328	13-743			
37636	10	3-299	25-830	37768	12	2-525	3-958	37768	8	2-035	8-983	37840	13	22-390	13-485			
37637	36	4-944	25-546	37769	14	7-446	3-840	37769	8	3-635	8-174	37841	12	22-640	13-058			
37638	8	7-124	25-934	37770	9	9-465	3-591	37770	25	4-963	8-866	37842	11	0-280	14-988			
37639	8	10-692	25-136	37771	9	9-545	3-973	37771	12	5-640	8-602	37843	8	2-110	14-265			
37640	9	14-744	25-689	37772	20	11-282	3-699	37772	8	8-994	8-790	37844	10	9-994	14-278			
37641	30	16-556	25-975	37773	21	15-997	3-563	37773	8	9-950	8-845	37845	10	9-248	14-558			
37642	34	19-546	25-209	37774	8	16-126	3-506	37774	8	13-854	8-126	37846	16	10-174	14-600			
37643	12	19-612	25-000	37775*	107	17-169	3-232	37775*	107	14-117	8-119	37847	9	16-972	14-516			
37644	11	21-118	25-384	37776	12	18-562	3-975	37776	12	16-422	8-698	37848	12	18-097	14-636			
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37922	17	22-422	21-639	38006	36	10-570	0-906	38078	8	16-622	7-646	38150	25	25-678	15-738	38222	8	13-214	23-258
37923	10	22-578	21-659	38007	26	5-934	1-386	38079	37	20-840	7-146	38151	8	2-758	16-038	38223	8	14-624	23-186
37924	10	23-940	21-505	38008	9	7-482	1-072	38080	19	23-076	7-238	38152	8	8-210	16-862	38224	42	20-902	23-168
37925	40	1-751	22-208	38009	11	8-037	1-356	38081	42	25-550	7-821	38153	8	12-948	16-338	38225	33	24-004	23-600
37926	10	3-994	22-784	38010	10	12-470	1-070	38082	34	7-077	8-854	38154	10	21-610	16-386	38226	33	25-237	23-274
37927	16	5-055	22-404	38011	34	20-996	1-574	38083	40	9-355	8-161	38155	43	23-932	16-146	38227	33	25-681	23-652
37928	11	5-685	22-925	38012	30	0-116	2-330	38084	40	10-084	8-464	38156	9	13-876	17-064	38228	38	4-660	24-924
37929	36	7-156	22-247	38013	38	0-808	2-808	38085	37	10-954	8-056	38157	34	14-016	17-797	38229	40	5-144	24-884
37930	8	9-804	22-100	38014	40	1-112	2-557	38086	35	16-316	8-769	38158	40	17-108	17-156	38230	35	7-112	24-186
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39427	13	20-100	13-264	39499	10	21-485	22-108	39571	8	24-444	1-522	39643	12	20-044	8-900	39715	8	0-734	16-187
39428*	93	22-765	13-804	39500	27	23-406	22-106	39572	9	0-802	2-567	39644*	44	21-260	8-116	39716	8	2-781	16-660
39429	8	1-179	14-014	39501	8	2-278	23-470	39573	25	1-496	2-665	39645	8	25-740	8-200	39717	40	6-350	16-080
39430	11	1-265	14-212	39502	22	3-644	23-050	39574	26	1-934	2-114	39646	8	1-851	9-546	39718	29	6-750	16-626
39431	8	6-751	14-743	39503	9	13-126	23-887	39575	8	3-199	2-683	39647	39	7-166	9-050	39719	9	8-549	16-516
39432	9	10-238	14-300	39504	29	15-440	23-814	39576	8	8-504	2-917	39648	35	18-240	9-354	39720	10	9-335	16-312
39433	8	13-094	14-776	39505	11	20-472	23-018	39577	40	14-866	2-236	39649	22	20-134	9-024	39721*	74	12-246	16-455
39434*	33	16-795	14-146	39506	19	20-765	23-005	39578	39	15-692	2-321	39650	22	0-770	10-866	39722	12	12-476	16-092
39435	8	20-126	14-446	39507	8	25-086	23-201	39579	40	19-444	2-470	39651	9	2-291	10-013	39723	35	12-721	16-380
39436	11	2-100	15-056	39508	29	25-599	23-024	39580	26	19-514	2-914	39652	8	3-995	10-907	39724*	76	13-981	16-256
39437	20	2-255	15-726	39509	8	6-493	24-155	39581	8	22-907	2-138	39653	9	6-604	10-145	39725	8	19-870	16-428
39438	8	3-676	15-842	39510*	41	6-971	24-360	39582	42	1-070	3-284	39654	12	12-169	10-288	39726	8	21-236	16-310
39439	8	4-578	15-415	39511	22	15-335	24-027	39583	8	2-350	3-102	39655	8	13-780	10-556	39727	14	25-996	16-550
39440*	58	5-058	15-416	39512	23	17-796	24-598	39584	8	2-477	3-492	39656	8	14-278	10-258	39728	8	1-208	17-764
39441	32	7-092	15-448	39513	31	19-459	24-392	39585*	41	3-774	3-820	39657	8	21-109	10-588	39729	29	3-770	17-500
39442*	35	9-750	15-596	39514	8	19-762	24-544	39586	36	3-911	3-079	39658	10	24-296	10-663	39730	9	3-880	17-431
39443	8	12-764	15-374	39515	23	20-378	24-974	39587*	40	4-382	3-262	39659	9	25-030	10-712	39731	40	8-976	17-460
39444	12	19-364	15-280	39516	11	21-696	24-609	39588	8	6-954	3-017	39660	8	25-174	10-252	39732	9	10-365	17-850
39445	12	23-750	15-054	39517*	41	23-806	24-338	39589	37	8-444	3-610	39661	15	1-173	11-148	39733	9	10-996	17-433
39446	9	1-928	16-024	39518	8	1-212	25-305	39590	8	11-454	3-499	39662	8	3-837	11-361	39734	8	17-486	17-061
39447	13	3-200	16-172	39519	12	2-700	25-474	39591	29	13-246	3-421	39663	9	4-130	11-766	39735	9	19-095	17-925
39448	8	7-188	16-458	39520	9	6-096	25-825	39592	11	17-217	3-237	39664	8	5-542	11-914	39736	37	25-656	17-307
39449	8	8-872	16-330	39521	38	8-246	25-360	39593	8	17-664	3-260	39665	9	6-557	11-159	39737	8	1-260	18-334
39450	8	10-238	16-596	39522	8	8-806	25-265	39594	23	18-268	3-760	39666	15	10-026	11-600	39738	11	2-348	18-446
39451	8	12-836	16-894	39523	8	10-040	25-794	39595	16	19-368	3-868	39667	41	12-488	11-580	39739	8	4-545	18-424
39452	9	20-755	16-222	39524	14	16-073	25-241	39596	41	21-015	3-051	39668	8	13-657	11-974	39740	22	5-328	18-250
39453	8	25-061	16-698	39525	8	16-246	25-916	39597*	47	1-274	4-056	39669	18	19-404	11-858	39741	8	7-746	18-335
39454	11	8-458	17-519	39526	10	16-666	25-364	39598	8	1-914	4-548	39670	9	21-538	11-912	39742	8	11-136	18-162
39455	36	8-738	17-183	39527	8	17-379	25-791	39599	43	3-542	4-733	39671	8	23-724	11-706	39743*	74	11-540	18-530
39456	25	11-575	17-252	39528	12	18-676	25-502	39600	8	7-059	4-320	39672	8	25-089	11-302	39744	14	13-678	18-766
39457	11	15-715	17-048	39529	8	20-176	25-776	39601	9	8-306	4-726	39673	8	25-430	11-558	39745	40	18-676	18-368
39458	27	21-800	17-324	39530	13	25-660	25-786	39602	8	8-677	4-300	39674	40	25-680	11-664	39746	17	20-974	18-127
39459	8	4-094	18-082					39603*	47	11-392	4-500	39675*	64	1-246	12-695	39747	21	21-995	18-060
39460	10	4-634	18-040					39604	35	16-262	4-524	39676	17	1-548	12-642	39748	23	23-450	18-878
39461	12	5-985	18-686					39605	8	18-452	4-526	39677	9	3-415	12-104	39749	38	24-504	18-740
39462*	63	8-056	18-766					39606	16	20-448	4-653	39678	8	8-378	12-145	39750	9	25-680	18-062
39463	9	8-830	18-812					39607	12	24-316	4-794	39679	8	8-707	12-488	39751	41	1-380	19-540
39464	8	23-508	18-348					39608	8	25-250	4-732	39680	8	16-726	12-522	39752	40	3-912	19-238
39465	11	24-600	18-478					39609	10	0-964	5-626	39681	8	18-994	12-422	39753*	60	4-126	19-576
39466	8	2-766	19-964					39610	11	1-171	5-812	39682	37	22-586	12-555	39754	24	9-498	19-900
39467	10	3-415	19-630					39611	28	4-440	5-223	39683	39	24-674	12-855	39755	33	13-138	19-066
39468	28	3-550	19-656					39612	9	4-844	5-437	39684	8	25-591	12-782	39756	8	13-718	19-204
39469	8	8-397	19-600					39613	10	9-578	5-234	39685	116	0-428	13-802	39757	9	14-096	19-450
39470	13	8-474	19-826					39614	12	16-505	5-984	39686	9	5-542	13-928	39758	8	15-720	19-395
39471	9	11-760	19-862					39615	8	24-087	5-796	39687*	116	7-004	13-050	39759	8	15-776	19-172
39472	30	13-930	19-344					39616	17	24-120	5-618	39688	40	15-557	13-102	39760	8	20-713	19-637
39473	8	17-130	19-775					39617	8	0-308	7-117	39689	10	18-949	13-783	39761	29	22-748	19-567
39474	32	23-620	19-555					39618	10	2-178	6-612	39690	13	11-841	13-478	39762	40	24-592	19-374
39475	8	2-364	20-868					39619	22	5-599	6-330	39691	41	21-390	13-670	39763	24	24-717	19-888
39476	23	4-492	20-379					39620	10	6-132	6-238	39692	8	21-662	13-519	39764	9	25-549	19-372
39477	25	5-842	20-986					39621	24	7-256	6-252	39693	10	22-957	13-374	39765	40	25-536	19-820
39478*	41	5-910	20-244					39622	13	10-396	6-646	39694	8	23-911	13-376	39766	32	0-288	20-907
39479	14	9-568	20-324					39623*	54	12-754	6-376	39695	8	24-791	13-280	39767	8	7-716	

14-116	39775	45	17-006	20-886	<b>R.A. 14<sup>h</sup> 24<sup>m</sup></b> Plate 704; 1916 April 30. <i>Provisional Constants.</i> A B C -02591 +00598 -0226 D E F -00604 -02602 -3715 Mag. = 16.0 - 1.05 $\sqrt{d}$	39906	9	3-820	7-705	39978	9	22-670	17-075	40050	22	14-050	25-387
14-144	39776	9	21-605	20-540		39907	27	13-330	7-080	39979	11	23-720	17-380	40051	8	16-764	25-904
15-038	39777	41	4-287	21-054		39908	19	13-792	7-115	39980	8	1-150	18-054	40052	10	18-649	25-122
15-209	39778	8	5-676	21-266		39909	13	10-651	7-867	39981	19	2-203	18-802	40053	11	22-500	25-176
15-355	39779	8	5-054	21-120		39910	33	22-624	7-446	39982	30	5-784	18-620	40054	24	25-142	25-534
15-537	39780	9	7-781	21-219		39911	8	23-180	7-923	39983	8	21-320	18-280				
15-537	39781	9	10-304	21-783		39912	20	8-185	8-262	39984	14	23-540	18-814				
15-918	39782	8	14-247	21-546		39913	11	8-186	8-276	39985	9	23-551	18-852				
15-972	39783	8	15-832	21-716		39914	8	8-884	8-524	39986	29	24-230	18-542				
15-994	39784	10	10-864	21-852		39915	21	19-850	8-055	39987	12	0-457	19-650				
16-048	39785	40	20-690	21-741	<b>R.A. 14<sup>h</sup> 32<sup>m</sup></b> Plate 692; 1916 April 27. <i>Provisional Constants.</i> A B C -02560 +00886 +00579 D E F -00901 -02592 -1031 Mag. = 16.5 - 1.05 $\sqrt{d}$	39916	14	4-294	9-420	39988	24	2-300	19-434				
16-181	39786	8	20-884	21-108		39917	10	7-590	9-980	39989	11	2-430	19-950				
16-666	39787	8	21-132	21-452		39918	32	12-554	9-988	39990	20	3-248	19-870				
16-666	39788	39	23-834	21-784		39919	24	12-761	9-100	39991	21	10-820	19-448				
16-666	39789	40	1-205	22-183		39920	12	17-704	9-255	39992	11	11-091	19-470				
16-666	39790	40	3-411	22-980		39921	8	25-520	9-608	39993	12	15-280	19-610				
16-666	39791	9	4-816	22-245		39922	8	1-896	10-730	39994	34	9-396	20-128				
16-666	39792	9	5-062	22-988		39923	13	9-352	10-050	39995	27	10-936	20-268				
16-666	39793	40	8-914	22-273		39924	10	13-238	10-190	39996	20	11-687	20-314				
16-666	39794	41	9-924	22-634		39925	11	19-984	10-174	39997	28	12-979	20-467				
16-666	39795	100	10-916	22-522	<b>R.A. 14<sup>h</sup> 32<sup>m</sup></b> Plate 692; 1916 April 27. <i>Provisional Constants.</i> A B C -02560 +00886 +00579 D E F -00901 -02592 -1031 Mag. = 16.5 - 1.05 $\sqrt{d}$	39926	9	25-438	10-110	39998	8	13-110	20-156				
16-666	39796	74	12-655	22-636		39927	22	3-293	11-718	39999	45	13-364	20-708				
16-666	39797	8	15-547	22-139		39928	10	4-699	11-678	40000	11	16-624	20-270				
16-666	39798	32	20-422	22-820		39929	31	5-758	11-518	40001	8	18-704	20-620				
16-666	39799	43	20-620	22-850		39930	8	6-248	11-628	40002	10	19-316	20-200				
16-666	39800	8	21-187	22-350		39931	44	6-790	11-744	40003	8	19-640	20-480				
16-666	39801	8	21-563	22-941		39932	19	14-176	11-037	40004	8	20-350	20-416				
16-666	39802	45	21-917	22-400		39933	8	19-600	11-536	40005	10	1-568	21-853				
16-666	39803	8	0-740	23-301		39934	8	21-180	11-158	40006	8	5-326	21-076				
16-666	39804	8	2-902	23-160		39935	13	21-440	11-840	40007	8	7-011	21-355				
16-666	39805	26	4-589	23-745	<b>R.A. 14<sup>h</sup> 32<sup>m</sup></b> Plate 692; 1916 April 27. <i>Provisional Constants.</i> A B C -02560 +00886 +00579 D E F -00901 -02592 -1031 Mag. = 16.5 - 1.05 $\sqrt{d}$	39936	13	24-750	11-828	40008	8	7-500	21-090				
16-666	39806	8	5-206	23-959		39937	16	0-210	12-642	40009	10	7-806	21-782				
16-666	39807	40	6-526	23-420		39938	17	2-302	12-918	40010	20	7-990	21-122				
16-666	39808	32	8-110	23-452		39939	9	4-456	12-530	40011	12	8-024	21-940				
16-666	39809	8	11-466	23-313		39940	21	5-830	12-980	40012	8	11-818	21-288				
16-666	39810	44	13-768	23-602		39941	21	7-443	12-770	40013	10	11-898	21-166				
16-666	39811	28	18-876	23-300		39942	21	11-344	12-270	40014	10	12-820	21-028				
16-666	39812	8	23-538	23-197		39943	16	20-274	12-918	40015	11	15-236	21-504				
16-666	39813	44	1-638	24-320		39944	28	23-336	12-098	40016	42	24-454	21-046				
16-666	39814	38	6-607	24-098		39945	28	21-484	12-906	40017	43	25-025	21-410				
16-666	39815	14	8-156	24-086	<b>R.A. 14<sup>h</sup> 32<sup>m</sup></b> Plate 692; 1916 April 27. <i>Provisional Constants.</i> A B C -02560 +00886 +00579 D E F -00901 -02592 -1031 Mag. = 16.5 - 1.05 $\sqrt{d}$	39946	11	23-668	12-949	40018	8	8-386	22-211				
16-666	39816	8	12-862	24-805		39947	8	0-593	13-456	40019	37	8-420	22-192				
16-666	39817	38	18-187	24-256		39948	14	3-920	13-816	40020	8	12-235	22-906				
16-666	39818	10	18-905	24-478		39949	14	5-360	13-466	40021	10	13-624	22-413				
16-666	39819	16	21-613	24-475		39950	20	12-286	13-962	40022	10	14-190	22-950				
16-666	39820	20	21-810	24-901		39951	9	13-610	13-886	40023	12	16-216	22-130				
16-666	39821	8	22-368	24-556		39952	8	24-439	13-110	40024	41	23-851	22-170				
16-666	39822	8	22-726	24-586		39953	12	2-774	14-172	40025	11	3-772	23-096				
16-666	39823	48	24-582	24-758		39954	8	3-595	14-500	40026	15	17-040	23-414				
16-666	39824	14	25-032	24-045		39955	8	6-218	14-114	40027	8	20-350	23-953				
16-666	39825	30	3-519	25-738	<b>R.A. 14<sup>h</sup> 32<sup>m</sup></b> Plate 692; 1916 April 27. <i>Provisional Constants.</i> A B C -02560 +00886 +00579 D E F -00901 -02592 -1031 Mag. = 16.5 - 1.05 $\sqrt{d}$	39956	33	8-740	14-092	40028	41	2-350	24-818				
16-666	39826	60	4-285	25-210		39957	8	10-935	14-810	40029	10	2-792	24-100				
16-666	39827	8	6-548	25-380		39958	9	2-255	15-255	40030	8	7-372	24-942				
16-666	39828	8	6-653	25-790		39959	8	10-210	15-800	40031	8	8-065	24-959				
16-666	39829	38	9-930	25-672		39960	37	12-536	15-180	40032	21	8-738	24-078				
16-666	39830	8	12-217	25-943		39961	11	15-268	15-074	40033	8	12-220	24-626				
16-666	39831	38	13-703	25-224		39962	8	17-875	15-449	40034	17	16-440	24-210				
16-666	39832	30	15-454	25-948		39963	46	18-775	15-260	40035	13	17-950	24-812				
16-666	39833	9	23-004	25-400		39964	19	20-700	15-468	40036	19	18-946	24-618				
16-666						39965	8	20-883	15-080	40037	8	21-822	24-132				
16-666						39966	11	21-662	15-318	40038	10	22-838	24-398				
16-666						39967	16	23-546	15-373	40039	8	23-290	24-287				
16-666						39968	16	3-670	16-600	40040	47	25-403	24-830				
16-666						39969	45	4-517	16-620	40041	39	4-018	25-900				
16-666						39970	10	8-953	16-718	40042	18	4-336	25-610				
16-666						39971	14	15-524	16-610	40043	26	7-241	25-762				
16-666						39972	8	17-548	16-650	40044	9	7-730	25-450				
16-666						39973	42	20-976	16-650	40045	20	9-278	25-098				
16-666						39974	9	23-345	16-065	40046	8	10-322	25-898				
16-666						39975	13	3-337	17-114	40047	10	10-738	25-486				
16-666						39976	8	4-394	17-561	40048	8	10-870	25-085				
16-666						39977	20	11-599	17-562	40049	10	13-398	25-372				

40144	10	16-425	4-608	40216	8	19-056	10-158	40288	13	1-198	19-204	<b>R.A. 14<sup>h</sup> 40<sup>m</sup></b> Plate 705; 1916 April 30 <i>Provisional Constants.</i> A      B      C -02536 +00321 +3372 D      E      F -00309 -02597 -2170 Map = 16.4 - 1.05 $\sqrt{d}$	40456	8	9-334	5-788
40145	12	16-600	4-480	40217	11	22-483	10-708	40289	10	1-510	19-243		40457	18	14-900	5-288
40146	34	17-454	4-230	40218	8	6-112	11-198	40290	8	4-070	19-228		40458	16	17-638	5-214
40147	8	18-458	4-444	40219	30	10-138	11-192	40291	8	7-824	19-023		40459	11	18-365	5-447
40148	43	21-086	4-859	40220	51	11-624	11-255	40292	8	17-552	19-086		40460	8	19-976	5-246
40149	10	21-626	4-954	40221	8	16-616	11-216	40293	11	20-598	19-468		40461	22	20-291	5-624
40150	10	21-870	4-340	40222	12	19-213	11-069	40294	8	23-474	19-772		40462	20	24-077	5-996
40151	8	24-216	4-510	40223	10	21-230	11-564	40295	11	9-296	20-300		40463	10	25-272	5-036
40152	31	2-356	5-496	40224	21	22-051	11-137	40296	15	12-262	20-428		40464	8	2-478	6-658
40153	8	10-503	5-854	40225	16	22-961	11-659	40297	8	23-568	20-856		40465	30	7-480	6-329
40154	27	13-582	5-188	40226	8	23-356	11-210	40298	8	24-965	20-712	No. $d$ $x$ $y$ 40401 11 5-216 0-625 40402 8 13-930 0-854 40403 28 14-550 0-956 40404 8 18-710 0-948 40405 8 21-444 0-487 40406 10 23-376 0-042 40407 8 23-808 0-640 40408 8 6-224 1-157 40409 9 7-036 1-514 40410 38 7-694 1-874 40411 23 8-739 1-976 40412 24 14-246 1-314 40413 8 13-786 1-568 40414 8 21-834 1-944 40415 13 22-118 1-275 40416 9 24-506 1-470 40417 20 4-977 2-025 40418 8 5-856 2-043 40419 13 6-926 2-750 40420 20 11-168 2-903 40421 15 11-866 2-341 40422 10 13-256 2-810 40423 45 16-124 2-030 40424 19 16-915 2-833 40425 21 22-196 2-293 40426 16 22-612 2-784 40427 22 23-690 2-465 40428 23 24-214 2-320 40429 20 0-036 3-429 40430 8 2-298 3-366 40431 8 6-214 3-301 40432 8 9-031 3-167 40433 30 10-896 3-957 40434 58 13-854 3-941 40435 8 17-916 3-182 40436 8 18-385 3-228 40437 8 18-416 3-360 40438 8 19-194 3-504 40439 9 21-372 3-376 40440 8 25-284 3-753 40441 11 0-678 4-087 40442 8 5-194 4-888 40443 11 9-100 4-054 40444 11 11-906 4-864 40445 8 17-102 4-667 40446 21 19-235 4-305 40447 14 22-394 4-862 40448 10 23-044 4-286 40449 26 25-110 4-013 40450 24 25-278 4-344 40451 13 0-864 5-596 40452 17 3-151 5-138 40453 54 3-794 5-398 40454 22 4-354 5-930 40455 12 4-415 5-890	40466	8	9-002	6-254
40155	21	14-722	5-850	40227	20	2-614	12-200	40299	47	2-440	21-423		40467	11	9-568	6-310
40156	46	15-364	5-905	40228	22	10-356	12-066	40300	47	3-613	21-766		40468	10	16-286	6-524
40157	14	22-946	5-499	40229	8	11-047	12-144	40301	8	6-490	21-387		40469	14	23-102	6-946
40158	17	25-508	5-052	40230	8	11-492	12-258	40302	8	13-958	21-784		40470	8	25-128	6-386
40159	50	25-880	5-312	40231	27	11-836	12-176	40303	30	17-316	21-964		40471	19	2-473	7-825
40160	15	1-007	6-952	40232	12	18-606	12-884	40304	18	17-635	21-206		40472	22	6-122	7-034
40161	8	4-314	6-555	40233	28	19-020	12-710	40305	8	20-100	21-682		40473	58	12-294	7-490
40162	8	7-656	6-816	40234	8	19-910	12-761	40306	8	21-426	21-926		40474	8	14-244	7-253
40163	12	8-216	6-706	40235	8	22-566	12-486	40307	44	1-849	22-554		40475	12	15-881	7-648
40164	24	9-424	6-876	40236	11	23-658	12-502	40308	8	4-194	22-396		40476	13	17-454	7-946
40165	13	12-930	6-363	40237	8	23-766	12-352	40309	8	4-750	22-780		40477	8	22-469	7-504
40166	8	13-015	6-318	40238	8	24-314	12-650	40310	10	9-969	22-182		40478	14	22-703	7-904
40167	10	13-944	6-196	40239	12	25-296	12-022	40311	13	10-477	22-428		40479	10	0-040	8-052
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40169	10	16-222	6-456	40241	9	2-320	13-488	40313	13	20-107	22-776		40481	20	5-810	8-970
40170	58	17-863	6-046	40242	9	6-293	13-554	40314	8	22-617	22-003		40482	9	10-912	8-910
40171	29	17-943	6-032	40243	28	7-906	13-178	40315	12	23-732	22-884		40483	8	11-955	8-624
40172	18	19-112	6-205	40244	8	18-049	13-162	40316	14	24-574	22-164		40484	35	21-118	8-172
40173	10	21-712	6-378	40245	8	18-961	13-810	40317	10	3-434	23-226		40485	18	21-360	8-586
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40175	36	0-424	7-847	40247	26	24-224	13-996	40319	42	20-164	23-357		40487	11	24-406	8-676
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40179	21	12-895	7-270	40251	10	10-356	14-570	40323	32	23-100	23-298		40491	9	4-552	9-396
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40183	12	19-152	7-125	40255	10	22-536	14-960	40327	12	3-324	24-650		40495	11	23-558	9-450
40184	9	19-414	7-138	40256	22	25-956	14-436	40328	20	8-014	24-474		40496	11	24-678	9-864
40185	34	21-806	7-084	40257	21	1-456	15-763	40329	8	9-136	24-610		40497	10	0-430	10-811
40186	11	22-106	7-950	40258	28	14-451	15-888	40330	9	11-767	24-880		40498	40	4-436	10-005
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40188	8	0-985	8-318	40260	22	23-884	15-820	40332	10	16-584	24-385		40500	29	8-968	10-720
40189	8	2-129	8-189	40261	62	24-574	15-218	40333	35	17-517	24-400		40501	30	15-681	10-632
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40191	13	6-966	8-442	40263	10	2-920	16-550	40335	12	0-542	25-580		40503	10	23-214	10-793
40192	29	7-338	8-809	40264	22	5-841	16-546	40336	29	1-191	25-928		40504	20	24-600	10-104
40193	10	13-362	8-286	40265	37	6-240	16-102	40337	52	3-438	25-192		40505	12	0-915	11-756
40194	8	14-120	8-465	40266	10	11-784	16-969	40338	8	3-816	25-255		40506	55	4-324	11-142
40195	19	14-917	8-568	40267	47	22-210	16-714	40339	8	4-768	25-529		40507	47	4-995	11-494
40196	8	15-104	8-340	40268	17	23-456	16-291	40340	8	16-354	25-069		40508	8	5-646	11-823
40197	30	16-295	8-164	40269	8	25-234	16-803	40341	10	16-398	25-370		40509	21	8-732	11-314
40198	11	16-646	8-627	40270	12	25-931	16-822	40342	24	17-244	25-446		40510	8	8-926	11-076
40199	23	21-050	8-444	40271	17	1-600	17-068	40343	8	18-258	25-034		40511	37	9-916	11-926
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40201	10	3-354	9-070	40273	47	6-720	17-048	40345	8	20-013	25-937		40513	8	12-236	11-470
40202	19	0-820	9-220	40274	9	10-416	17-018	40346	22	20-342	25-580		40514	46	13-677	11-110
40203	9	0-010	9-236	40275	33	10-544	17-164	40347	8	22-276	25-381		40515	10	16-144	11-248
40204	14	11-083	9-624	40276	31	11-065	17-570	40348	8	25-770	25-717		40516	39	16-220	11-548
40205	8	11-480	9-411	40277	8	18-426	17-687						40517	10	17-928	11-515
40206	24	16-927	9-789	40278	32	19-770	17-928						40518	8	22-275	11-840
40207	8	17-112	9-986	40279	8	24-873	17-404						40519	12	23-875	11-111
40208	9	21-525	9-500	40280	11	0-610	18-076						40520			

				R.A. 14 <sup>h</sup> 48 <sup>m</sup>							
				Plate 676; 1916 April 10.							
				Provisional Constants.							
				A B C							
				-02512 +00534 +1506							
				D E F							
				-00512 -02602 -3458							
				Mag. = 17.5 - 1.05 $\sqrt{d}$							
				No.	d	x	y				
40528	14	13.542	12.729	40600	28	20.584	19.120	40756	26	0.624	6.896
40529	39	18.684	12.574	40601	8	1.568	20.954	40757	12	2.732	6.312
40530	8	19.134	12.090	40602	8	5.754	20.832	40758*	76	6.796	6.032
40531	8	20.632	12.722	40603	8	10.648	20.903	40759	20	6.832	6.035
40532	12	22.898	12.660	40604	8	10.735	20.452	40760	34	7.322	6.444
40533	10	24.314	12.075	40605	8	11.043	20.543	40761	16	12.524	6.512
40534	26	25.422	12.203	40606*	44	12.970	20.025	40762	37	13.126	6.938
40535	22	2.820	13.786	40607	11	15.336	20.524	40763	10	18.250	6.575
40536	14	4.322	13.876	40608	31	16.225	20.310	40764	22	18.254	6.395
40537	8	7.804	13.962	40609	32	20.392	20.957	40765	10	23.696	6.086
40538	8	10.409	13.104	40610	11	21.428	20.783	40766*	56	23.918	6.722
40539	13	12.076	13.380	40611	8	24.724	20.248	40767	30	24.466	6.455
40540	8	13.576	13.470	40612	22	4.942	21.753	40768	22	6.784	7.856
40541	30	14.351	13.103	40613	12	12.102	21.880	40769	37	6.166	7.466
40542	30	17.804	13.397	40614	8	15.065	21.881	40770	22	6.784	7.864
40543	8	17.870	13.318	40615	35	16.480	21.314	40771	28	8.652	7.206
40544*	40	17.925	13.165	40616	10	18.018	21.634	40772	14	8.888	7.254
40545	31	21.144	13.844	40617	25	20.185	21.588	40773	12	10.385	7.456
40546	10	22.154	13.586	40618	21	21.688	21.016	40774	14	11.163	7.896
40547	8	23.135	13.336	40619	8	23.575	21.862	40775	10	13.398	7.781
40548	25	2.190	14.086	40620	8	25.406	21.765	40776	14	16.608	7.946
40549	17	3.925	14.517	40621	9	1.744	22.978	40777	17	17.394	7.360
40550	8	5.211	14.260	40622	13	2.584	22.252	40778	34	17.622	7.945
40551	18	9.395	14.114	40623*	60	5.159	22.816	40779	10	18.114	7.515
40552	19	10.544	14.170	40624	29	15.486	22.465	40780*	56	24.472	7.692
40553	10	13.170	14.946	40625	34	1.130	23.390	40781	10	24.562	7.876
40554	10	14.716	14.822	40626	8	1.230	23.226	40782	22	25.904	7.341
40555	8	14.922	14.794	40627	10	4.556	23.966	40783	13	0.026	8.534
40556	9	22.872	14.115	40628	8	5.266	23.034	40784	18	1.952	8.613
40557	18	23.734	14.233	40629	12	5.590	23.250	40785	24	2.398	8.444
40558	13	25.925	14.023	40630	11	6.174	23.794	40786	10	3.966	8.886
40559	31	0.246	15.707	40631	11	11.615	23.710	40787	34	18.256	8.980
40560	8	1.506	15.058	40632	10	12.373	23.786	40788	13	20.154	8.054
40561	20	1.859	15.914	40633	13	12.396	23.372	40789	8	20.496	8.423
40562*	61	2.536	15.308	40634*	44	16.496	23.212	40790	14	1.109	9.394
40563	8	5.584	15.180	40635	8	17.442	23.436	40791	12	2.236	9.794
40564	27	13.880	15.547	40636	22	22.586	23.970	40792	8	5.035	9.885
40565	8	22.820	15.382	40637	21	15.003	24.642	40793	8	5.980	9.596
40566	8	24.274	15.984	40638	25	15.810	24.020	40794*	60	6.684	9.915
40567	13	25.090	15.594	40639	27	19.314	24.115	40795	9	8.952	9.141
40568	9	25.404	15.951	40640	8	20.066	24.526	40796	15	9.834	9.362
40569	44	0.186	16.816	40641	28	21.382	24.436	40797	18	11.836	9.992
40570	11	1.434	16.388	40642	8	23.382	24.546	40798	34	14.846	9.435
40571	10	3.912	16.907	40643	10	3.798	25.802	40799	24	14.864	9.450
40572	19	5.670	16.246	40644	17	5.388	25.356	40800*	56	17.312	9.370
40573*	26	14.695	16.916	40645	8	5.628	25.854	40801	10	18.717	9.335
40574	12	22.182	16.810	40646	15	7.646	25.605	40802	14	24.379	9.534
40575	8	5.222	17.976	40647	34	10.578	25.254	40803	14	0.779	10.652
40576	8	6.076	17.343	40648	8	11.473	25.601	40804	24	2.164	10.036
40577	21	6.834	17.022	40649	20	17.782	25.169	40805	20	2.568	10.958
40578	8	8.436	17.706	40650	30	18.122	25.715	40806	46	16.986	10.640
40579	14	13.537	17.840	40651	12	20.868	25.818	40807	20	20.240	10.956
40580	8	13.950	17.872	40652	21	21.534	25.296	40808	28	21.108	10.293
40581	32	14.395	17.773	40653	50	24.025	25.190	40809	36	23.125	10.823
40582	28	15.628	17.990	40654	12	25.305	25.237	40810	20	1.450	11.054
40583	8	17.014	17.750					40811*	54	3.552	11.136
40584	10	17.102	17.970					40812*	105	7.995	11.633
40585	8	3.960	18.536					40813	37	10.126	11.915
40586*	51	7.354	18.620					40814	37	10.184	11.852
40587	8	13.086	18.620					40815	54	12.006	11.636
40588*	55	13.912	18.746					40816	36	12.084	11.109
40589*	71	14.273	18.938					40817	30	13.094	11.508
40590	19	23.594	18.774					40818*	70	19.054	11.786
40591*	46	24.351	18.575					40819	37	22.105	11.176
40592	20	2.016	19.060					40820	28	22.565	11.442
40593	29	4.704	19.011					40821	10	22.576	11.918
40594	15	5.264	19.972					40822	23	24.494	11.321
40595*	37	7.000	19.740					40823	36	25.338	11.514
40596	8	7.374	19.238					40824	12	25.528	11.628
40597	8	11.052	19.928					40825	16	0.492	12.612
40598	32	15.536	19.386					40826	8	1.900	12.006
40599	8	16.088	19.184					40827	23	4.406	12.772
								40828	10	6.526	12.619
								40829	36	6.613	12.336
								40830	34	7.838	12.524
								40831	16	12.846	12.894
								40832	10	15.666	12.074
								40833	18	16.702	12.074
								40834	17	18.676	12.045
								40835	26	22.464	12.552
								40836	36	22.624	12.637
								40837	10	0.736	13.286
								40838	18	3.534	13.939
								40839	12	4.514	13.005
								40840*	80	7.136	13.502
								40841	17	7.286	13.912
								40842	64	7.330	13.511
								40843	11	9.135	13.556
								40844	8	20.154	13.663
								40845	9	21.858	13.750
								40846	37	22.842	13.235
								40847	10	23.044	13.794
								40848	18	23.150	13.310
								40849	24	25.354	13.576
								40850	11	25.444	13.444
								40851	8	25.766	13.616
								40852	10	0.484	14.068
								40853	10	1.145	14.124
								40854	28	1.346	14.175
								40855*	64	4.416	14.855
								40856	36	12.354	14.362
								40857	21	18.474	14.007
								40858	22	20.860	14.660
								40859	32	24.474	14.798
								40860	8	0.446	15.336
								40861	18	2.722	15.521
								40862	10	3.036	15.875
								40863	40	5.614	15.976

40900	26	1:26.1	18:7.16	40972	8	4:307	25:286	41040*	60	4:756	4:090	41112	27	10:608	11:646	41184	27	10:090	19:043
40901*	38	2:016	18:508	40973	48	4:693	25:674	41041	10	7:221	4:091	41113	10	16:140	11:659	41185	12	14:732	19:463
40902*	74	6:100	18:212	40974	20	4:906	25:181	41042	13	16:008	4:096	41114	10	0:250	12:890	41186	19	17:617	19:952
40903*	12	8:534	18:806	40975	28	7:982	25:215	41043	11	1:919	5:578	41115	9	0:353	12:254	41187	11	18:890	19:881
40904	24	11:405	17:869	40976	15	8:528	25:314	41044	26	3:192	5:997	41116	24	0:410	12:973	41188	15	20:102	19:634
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40906*	56	14:868	18:650	40978	8	10:554	25:718	41046	8	4:246	5:860	41118	14	10:074	12:371	41190	10	22:730	19:952
40907	36	17:198	18:124	40979	24	12:638	25:118	41047	8	9:517	5:284	41119	18	11:124	12:492	41191	9	22:818	19:916
40908*	82	20:352	18:304					41048	12	18:425	5:230	41120	8	13:790	12:420	41192	12	23:971	19:005
40909	8	20:616	18:276					41049	12	19:294	5:500	41121	22	22:043	12:241	41193	20	3:302	20:001
40910	26	21:061	18:663					41050	8	20:850	5:258	41122	25	0:634	13:564	41194	20	8:480	20:697
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40912	32	21:846	18:257					41052	14	2:184	6:771	41124	12	3:150	13:882	41196	9	9:234	20:026
40913	46	22:516	18:270					41053	13	4:150	6:949	41125	8	3:244	13:750	41197	40	13:310	20:022
40914	11	24:426	18:650					41054	8	5:309	6:048	41126	8	4:827	13:592	41198	14	14:658	20:836
40915	8	3:706	19:855					41055	30	14:567	6:105	41127	8	7:716	13:982	41199	34	14:909	20:639
40916	30	9:825	19:503					41056	22	18:257	6:690	41128	43	10:236	13:064	41200	11	21:716	20:736
40917	36	11:354	19:270					41057*	60	20:950	6:746	41129*	51	15:999	13:405	41201	9	22:182	20:664
40918	16	13:745	19:922					41058*	48	21:030	6:749	41130	11	19:654	13:437	41202	24	23:312	20:266
40919	32	16:794	19:462					41059	8	22:780	6:673	41131	8	21:842	13:630	41203	50	25:986	20:768
40920	28	19:512	19:955					41060*	53	23:114	6:472	41132	8	24:782	13:494	41204	13	6:878	21:076
40921	8	20:594	19:212					41061*	49	1:638	7:040	41133	10	25:010	13:476	41205	9	11:360	21:513
40922	24	20:774	19:625					41062	11	3:635	7:640	41134	26	4:549	14:526	41206	10	12:205	21:814
40923	8	22:172	19:744					41063	11	4:307	7:235	41135	10	12:956	14:180	41207	8	12:367	21:350
40924	12	24:336	19:138					41064	8	6:681	7:948	41136	31	22:000	14:761	41208	9	12:922	21:600
40925	36	25:338	19:698					41065	8	11:656	7:684	41137	11	1:847	15:389	41209	20	14:351	21:260
40926	9	2:414	20:175					41066	8	13:260	7:180	41138	17	2:285	15:112	41210	15	17:924	21:856
40927	34	5:878	20:094					41067*	45	15:998	7:436	41139	9	5:780	15:748	41211	52	25:680	21:279
40928	8	10:841	20:973					41068	11	16:298	7:224	41140	11	9:394	15:840	41212	8	5:528	22:856
40929*	64	12:842	20:904					41069	13	18:240	7:710	41141*	74	9:420	15:174	41213	10	6:811	22:342
40930	37	18:946	20:050					41070	12	19:359	7:586	41142	17	10:853	15:935	41214	10	8:426	22:559
40931	8	21:905	20:256					41071	8	19:692	7:852	41143	11	14:687	15:638	41215	8	10:116	22:740
40932	8	0:793	21:376					41072	19	23:330	7:652	41144	22	15:188	15:354	41216	9	10:688	22:990
40933	10	3:116	21:684					41073	27	23:506	7:036	41145	8	18:166	15:006	41217*	48	12:560	22:628
40934*	52	4:244	21:070					41074	11	24:051	7:508	41146	18	20:790	15:290	41218	11	12:796	22:529
40935	34	8:713	21:526					41075	21	24:770	7:292	41147	19	22:820	15:394	41219	9	15:106	22:666
40936	24	8:886	21:095					41076	9	25:007	7:166	41148*	54	23:158	15:212	41220	8	17:400	22:126
40937	17	14:874	21:004					41077*	43	2:199	8:008	41149	8	25:067	15:316	41221	13	17:408	22:912
40938	12	17:075	21:564					41078	8	2:294	8:192	41150	25	4:958	16:520	41222	8	17:946	22:663
40939	13	18:168	21:625					41079	12	5:040	8:443	41151	14	6:969	16:257	41223	20	20:844	22:186
40940	20	19:938	21:728					41080	13	6:983	8:122	41152	14	9:507	16:929	41224	11	20:920	22:419
40941	11	4:125	22:004					41081	14	8:541	8:892	41153	26	9:899	16:648	41225*	40	5:439	23:249
40942	16	4:668	22:400					41082	16	11:924	8:037	41154	19	19:290	16:276	41226*	47	7:620	23:107
40943	16	11:502	22:856					41083*	28	13:723	8:450	41155	10	21:224	16:370	41227	9	8:639	23:101
40944	12	11:524	22:974					41084*	40	13:852	8:668	41156	17	24:176	16:614	41228	8	14:087	23:700
40945	14	13:121	22:755					41085	9	17:474	9:484	41157	12	24:718	16:650	41229*	47	15:978	23:444
40946	21	16:957	22:364					41086	12	17:920	8:900	41158	8	0:584	17:732	41230	14	20:100	23:095
40947	36	0:324	23:028					41087	10	20:590	8:720	41159	31	4:558	17:009	41231	8	21:885	23:784
40948	18	5:544	23:015					41088	30	2:257	9:620	41160*	60	12:584	17:240	41232	10	22:282	23:166
40949	12	6:044	23:844					41089	26	12:217	9:408	41161	19	21:630	17:078	41233	9	24:272	23:492
40950	13	7:532	23:336					41090	8	13:458	9:434	41162	26	23:420	17:871	41234	8	25:394	23:849
40951	15	9:658	23:576					41091	12	15:782	9:182	41163	9	25:773	17:532	41235	8	2:450	24:721
40952	26	10:724	23:548					41092	8	16:453	9:702	41164	40	0:362	18:064	41236*	58	6:601	24:512
40953	36	16:403	23:045					41093	9	6:404	10:821	41165	8	2:279	18:966	41237	14	7:669	24:156
40954	13	17:560	23:804					41094	12	8:940	10:412	41166	19	2:610	18:130	41238	8	9:234	24:283
40955	9	23:432	23:264					41095	19	11:880	10:310	41167	21	2:632	18:164	41239	9	13:192	24:047
40956	14	1:126	24:496					41096	9	14:380	10:490	41168	10	4:324	18:030	41240	8	16:050	24:890
40957	17	4:914	24:458					41097	10	16:969	10:580	41169	9	9:731	18:146	41241	12	20:147	24:462
40958	12	5:296	24:187					41098	11	17:082	10:070	41170	8	13:884	18:211	41242	8	20:714	24:398
40959*	64	5:401	24:785					41099	8	17:830	10:807	41171	29	15:814	18:340	41243	12	22:332	24:740
40960	17	7:238	24:540					41100	10	17:888	10:728	41172	20	16:115	18:034	41244	33	22:721	24:121
40961*	62	9:300	24:341					41101	11	20:480	10:211	41173	10	16:130	18:640	41245	11	23:736	24:374
40962	16	11:391	24:732					41102	12	25:730	10:476	41174	8	18:192	18:860	41246	58	25:618	24:020
40963	16	14:046	24:974					41103	11	0:340	11:774	41175	8	19:434	18:813	41247	30	1:968	25:059
40964	54	15:063	24:816					41104	22	0:892	11:150	41176	15	22:886	18:204	41248	13	8:202	25:772
40965	16	17:469	24:942					41105	13	2:266	11:636	41177	23	23:024	18:738	41249	29	8:006	25:531
40966	8	19:025	24:291					41106	20	3:110	11:820	41178	13	25:330	18:710	41250	8	10:031	25:309
40967	15	22:904	24:126					41107	8	3:303	11:933	41179	9	2:193	19:476	41251	12	14:638	25:210
40968	42	24:052	24:743					41108	33	3:916	11:600	41180	8	6:878	19:330	41252	11	15:430	25:614



R.A. 15<sup>h</sup> 4<sup>m</sup>

Plate 694 : 1916 April 27.

## Provisional Constants.

A B C  
-02567 + 00769 + 1977D E F  
-00767 -02575 +0645

Mag. = 17.1 - 1.05√d

No.	d	x	y
41301	8	0.094	0.867
41302	36	0.834	0.817
41303	26	1.208	0.062
41304	10	3.821	0.556
41305	33	4.936	0.086
41306	42	5.444	0.286
41307	48	6.894	0.756
41308	45	7.680	0.996
41309	24	8.857	0.456
41310	10	9.324	0.106
41311	8	11.242	0.836
41312	16	13.394	0.566
41313	40	16.318	0.216
41314	10	19.518	0.895
41315	11	19.762	0.537
41316	40	23.040	0.528
41317	11	24.414	0.318
41318	49	25.277	0.516
41319	22	1.224	1.212
41320	23	4.610	1.476
41321	19	11.842	1.770
41322	22	12.010	1.746
41323	8	12.238	1.266
41324	46	12.838	1.064
41325	10	13.762	1.397
41326	8	15.561	1.291
41327	9	18.375	1.052
41328	8	19.761	1.769
41329	8	22.824	1.654
41330	9	23.685	1.570
41331	8	0.333	2.198
41332	25	2.066	2.407
41333	32	12.746	2.181
41334	12	19.902	2.380
41335	38	22.108	2.909
41336	37	23.794	2.380
41337	76	25.560	2.547
41338	34	1.437	3.372
41339	29	3.284	3.640
41340	37	4.828	3.829
41341	39	6.574	3.636
41342	43	7.700	3.862
41343	24	14.732	3.019
41344	22	15.516	3.492
41345	20	16.639	3.044
41346	43	18.526	3.374
41347	37	21.159	3.281
41348	8	21.328	3.329
41349	34	22.236	3.187
41350	14	25.713	3.840
41351	10	7.143	4.754
41352	8	7.706	4.318
41353	13	11.288	4.385
41354	39	14.460	4.364
41355	27	14.550	4.004

41356	8	16.136	4.099	41428	42	24.374	10.850	41500	29	18.826	18.930
41357	20	18.599	4.476	41429	30	24.416	11.296	41501	39	23.819	18.234
41358	37	19.368	4.896	41430	14	9.058	11.726	41502	10	24.685	18.666
41359	39	22.046	4.899	41431	38	16.160	11.238	41503	38	0.894	19.057
41360	36	0.070	5.045	41432	31	16.241	11.506	41504	32	1.840	19.314
41361	27	4.600	5.799	41433	31	17.714	11.378	41505	23	4.872	19.076
41362	35	7.256	5.852	41434	28	23.861	11.950	41506	18	6.298	19.236
41363	34	10.700	5.185	41435	38	0.424	12.566	41507	12	10.762	19.241
41364	8	12.348	5.904	41436	10	1.954	12.274	41508	44	13.640	19.076
41365	20	13.713	5.045	41437	44	8.604	12.864	41509	30	14.537	19.115
41366	16	14.923	5.276	41438	13	10.412	12.165	41510	25	22.884	19.093
41367	41	16.200	5.402	41439	74	12.564	12.837	41511	10	24.682	19.668
41368	43	18.520	5.786	41440	34	13.106	12.083	41512	80	25.917	19.367
41369	46	18.922	5.556	41441	24	15.220	12.036	41513	14	0.077	20.094
41370	9	20.226	5.887	41442	27	18.832	12.836	41514	30	0.614	20.276
41371	34	21.186	5.842	41443	41	23.370	12.727	41515	27	0.700	20.237
41372	23	23.223	5.905	41444	24	24.301	12.016	41516	37	1.200	20.582
41373	54	0.821	6.792	41445	33	24.502	12.466	41517	13	5.459	20.320
41374	13	7.514	6.176	41446	43	24.814	12.166	41518	35	7.633	20.242
41375	26	13.714	6.508	41447	18	1.946	13.351	41519	39	8.400	20.073
41376	39	13.746	6.885	41448	15	2.580	13.789	41520	40	8.663	20.116
41377	18	14.025	6.844	41449	33	2.812	13.770	41521	19	8.670	20.443
41378	14	21.566	6.004	41450	33	5.326	13.056	41522	37	12.452	20.954
41379	8	22.864	6.434	41451	31	6.037	13.309	41523	30	18.398	20.238
41380	16	24.512	6.004	41452	43	9.784	13.638	41524	41	23.196	20.458
41381	16	25.682	6.794	41453	31	14.020	13.062	41525	15	22.036	20.258
41382	37	1.052	7.970	41454	20	19.388	13.990	41526	23	23.804	20.604
41383	39	1.220	7.351	41455	42	24.415	13.901	41527	33	24.046	20.117
41384	19	1.772	7.813	41456	16	24.876	13.568	41528	58	3.575	21.562
41385	37	2.488	7.592	41457	43	14.302	14.022	41529	52	3.878	21.052
41386	14	2.724	7.464	41458	55	16.623	14.874	41530	12	4.878	21.822
41387	11	6.054	7.926	41459	35	18.482	14.336	41531	38	17.060	21.484
41388	40	6.127	7.354	41460	33	20.840	14.700	41532	80	20.010	21.125
41389	9	9.347	7.302	41461	38	0.644	15.716	41533	37	20.534	21.256
41390	15	12.385	7.700	41462	67	0.977	15.528	41534	33	21.183	21.084
41391	32	19.938	7.775	41463	26	2.892	15.604	41535	28	22.478	21.188
41392	38	21.136	7.338	41464	22	4.666	15.534	41536	17	24.441	21.646
41393	15	25.086	7.534	41465	30	5.582	15.956	41537	13	2.107	22.230
41394	14	11.460	8.654	41466	37	11.884	15.304	41538	28	4.405	22.820
41395	80	12.057	8.328	41467	43	15.014	15.346	41539	23	5.919	22.027
41396	78	14.456	8.833	41468	14	21.106	15.782	41540	27	6.840	22.602
41397	22	16.162	8.363	41469	39	21.713	15.068	41541	46	10.135	22.514
41398	36	17.677	8.296	41470	44	24.650	15.922	41542	33	11.364	22.170
41399	21	18.354	8.024	41471	36	1.698	16.570	41543	22	17.048	22.752
41400	38	18.576	8.161	41472	35	2.016	16.918	41544	23	21.022	24.314
41401	18	21.303	8.620	41473	21	2.559	16.947	41545	23	21.362	24.693
41402	19	22.128	8.682	41474	34	9.125	16.664	41546	28	0.210	23.493
41403	36	23.410	8.900	41475	30	9.613	16.155	41547	25	2.202	23.794
41404	15	4.128	9.160	41476	33	10.722	16.726	41548	34	7.067	23.786
41405	19	4.850	9.374	41477	40	10.932	16.009	41549	30	9.526	23.190
41406	75	5.195	9.356	41478	40	11.824	16.995	41550	40	11.343	23.816
41407	17	6.628	9.223	41479	39	13.266	16.399	41551	43	11.618	23.428
41408	17	9.052	9.963	41480	36	14.241	16.293	41552	40	19.040	23.280
41409	10	13.224	9.588	41481	37	16.770	16.702	41553	39	19.240	23.425
41410	11	17.397	9.536	41482	30	18.638	16.846	41554	17	20.308	23.874
41411	30	18.555	9.492	41483	10	19.642	16.792	41555	40	20.997	23.894
41412	21	19.690	9.614	41484	21	20.756	16.292	41556	54	22.010	23.314
41413	80	20.686	9.236	41485	10	3.626	17.814	41557	40	24.810	23.581
41414	11	21.862	9.804	41486	36	5.184	17.080	41558	39	25.400	23.937
41415	26	22.482	9.384	41487	43	5.824	17.620	41559	48	0.659	24.445
41416	12	1.174	10.218	41488	10	7.928	17.269	41560	27	1.678	24.685
41417	32	3.488	10.704	41489	23	21.136	17.464	41561	27	3.332	24.134
41418	36	5.486	10.456	41490	50	21.505	17.756	41562	70	3.552	24.304
41419	53	6.806	10.638	41491	27	23.315	17.300	41563	42	3.408	24.455
41420	37	10.478	10.673	41492	40	24.005	17.597	41564	40	12.104	24.582
41421	28	10.709	10.534	41493	45	25.292	17.940	41565	8	13.952	24.409
41422	36	14.518	10.881	41494	36	0.745	18.526	41566	9	14.400	24.571
41423	23	14.694	10.451	41495	40	1.276	18.185	41567	42	14.550	24.500
41424	44	15.414	10.622	41496	10	1.616	18.214	41568	35	15.174	24.100
41425	13	17.367	10.347	41497	30	3.196	18.996	41569	9	15.607	24.928
41426	44	19.670	10.456	41498	20	14.798	18.913	41570	13	23.928	24.837
41427	40	22.274	10.439	41499	12	16.482	18.742	41571	10	24.668	24.668

R.A. 15<sup>h</sup> 12<sup>m</sup>

Plate 688 : 1916 April 26

## Provisional Constants.

A B C  
-02545 -00128 +2364D E F  
-00093 -02580 -2459

Mag. = 16.1 - 1.05√d

No.	d	x	y
41601	8	0.332	0.428
41602	13	0.701	0.410
41603	8	1.714	0.730
41604	10	2.074	0.194
41605	40	2.931	0.388
41606	8	3.848	0.175
41607	9	5.065	0.203
41608	8	5.662	0.598
41609	13	7.708	0.990
41610	21	9.852	0.564
41611	8	14.320	0.700
41612	20	14.950	0.984
41613	12	18.155	0.303

41632	8	12-705	2-350	41704	12	6-636	9-906	41776	9	25-776	16-045	41848	8	5-746	23-037	41914	8	24-194	0-390
41633	8	12-754	2-432	41705	8	7-747	9-086	41777	9	1-042	17-240	41849	14	11-806	23-989	41915	8	24-839	0-924
41634	14	18-724	2-898	41706	10	11-816	9-746	41778	13	1-739	17-472	41850	24	14-728	23-004	41916	8	2-234	1-785
41635	8	20-095	2-820	41707	9	18-336	9-298	41779	20	3-024	17-807	41851	10	15-002	23-045	41917	8	2-884	1-496
41636	12	22-000	2-564	41708	8	24-252	9-988	41780	8	8-310	17-854	41852	8	16-062	23-655	41918	12	10-500	1-347
41637	8	3-388	3-711	41709*	28	2-074	10-726	41781	8	9-623	17-097	41853	8	17-100	23-165	41919	32	13-631	1-398
41638	14	21-455	3-352	41710	13	4-726	10-222	41782	8	8-868	17-038	41854	9	17-890	23-714	41920	15	20-761	1-917
41639	8	21-660	3-425	41711	12	7-210	10-253	41783	22	21-549	17-500	41855	8	20-092	23-925	41921	24	22-526	1-306
41640	8	21-685	3-358	41712	10	9-488	10-427	41784	13	1-552	18-168	41856	8	1-686	24-714	41922	23	23-696	1-274
41641	8	23-301	3-528	41713	8	11-712	10-800	41785	8	2-422	18-536	41857	8	1-828	24-545	41923	8	24-526	1-591
41642	8	25-420	3-196	41714	8	12-297	10-923	41786	8	5-668	18-505	41858*	20	4-092	24-546	41924	10	5-073	2-880
41643	10	8-068	4-066	41715	13	15-275	10-285	41787	9	6-548	18-499	41859	11	4-870	24-271	41925	23	6-055	2-155
41644	8	8-840	4-382	41716	13	16-112	10-074	41788	12	8-363	18-496	41860	8	8-175	24-313	41926	10	6-750	2-263
41645	10	9-014	4-803	41717	13	19-052	10-280	41789*	18	13-922	18-475	41861	10	12-000	24-162	41927	13	7-389	2-101
41646	8	14-073	4-134	41718	8	19-326	10-512	41790	8	19-305	18-507	41862	8	14-412	24-549	41928	21	9-077	2-502
41647	8	18-532	4-551	41719*	32	10-887	10-650	41791	8	19-686	18-368	41863	10	15-752	24-266	41929	25	9-180	2-504
41648	8	18-963	4-714	41720	9	20-183	10-432	41792*	40	22-129	18-568	41864*	25	15-937	24-335	41930	22	10-204	2-067
41649	12	19-536	4-364	41721*	93	21-000	10-042	41793	9	0-623	19-483	41865	10	16-798	24-067	41931	12	12-616	2-427
41650	17	20-535	4-609	41722	10	22-028	10-590	41794	10	1-786	19-094	41866	10	18-456	24-732	41932	36	23-392	2-642
41651	8	24-479	4-505	41723*	48	22-092	10-764	41795*	82	3-646	19-234	41867	8	19-031	24-716	41933*	82	23-764	2-002
41652*	40	24-937	4-500	41724	9	24-535	10-350	41796	8	3-849	19-934	41868	8	19-157	24-214	41934	18	25-216	2-164
41653	8	25-355	4-873	41725	10	1-569	11-829	41797	28	7-305	19-161	41869	8	20-716	24-059	41935	8	0-840	3-744
41654	8	25-924	4-866	41726	9	2-003	11-888	41798*	24	11-996	19-995	41870	11	21-064	24-550	41936	8	2-704	3-166
41655	9	1-207	5-785	41727	25	7-864	11-663	41799	10	13-778	19-640	41871	8	23-134	24-362	41937	8	2-956	3-384
41656	8	2-195	5-972	41728*	82	17-868	11-533	41800	8	21-730	19-736	41872	8	23-608	24-550	41938*	36	8-666	3-102
41657*	113	4-310	5-368	41729	49	25-614	11-212	41801	25	23-474	19-186	41873	12	24-130	24-638	41939	12	9-641	3-020
41658	8	8-340	5-818	41730	23	1-076	12-604	41802	8	25-359	19-367	41874	9	25-720	24-916	41940	33	11-784	3-695
41659	12	9-614	5-404	41731	10	2-213	12-340	41803	8	1-545	20-482	41875	8	0-058	25-025	41941	10	12-630	3-496
41660	10	9-860	5-576	41732	26	25-251	12-040	41804	12	5-855	20-510	41876	10	1-225	25-083	41942	29	15-016	3-627
41661	20	10-395	5-008	41733	10	5-038	12-772	41805	8	7-748	20-356	41877	8	0-804	25-351	41943	28	23-108	3-374
41662	24	10-922	5-828	41734	10	12-780	12-840	41806	8	9-860	20-791	41878	10	7-980	25-042	41944*	42	2-489	4-695
41663	10	12-224	5-452	41735	8	13-874	12-765	41807*	25	11-509	20-940	41879	12	9-554	25-382	41945	8	5-310	4-172
41664	8	12-857	5-592	41736	12	14-494	12-831	41808	8	13-346	20-775	41880	24	12-310	25-002	41946	15	9-286	4-268
41665	9	12-870	5-215	41737	29	15-690	12-688	41809	20	14-725	20-423	41881	26	13-992	25-701	41947	22	12-422	4-166
41666	18	13-890	5-482	41738*	33	17-955	12-046	41810	9	23-496	20-366	41882	8	14-941	25-226	41948	20	18-738	4-341
41667	12	18-308	5-265	41739	16	24-357	12-301	41811	8	23-776	20-065	41883	24	15-100	25-360	41949	8	19-424	4-068
41668	8	19-426	5-300	41740	10	24-398	12-410	41812	10	25-054	20-139	41884	8	15-928	25-221	41950	9	24-306	4-327
41669	8	19-618	5-645	41741	8	24-874	12-217	41813	8	0-222	21-074	41885	10	10-790	25-076	41951	8	24-516	4-149
41670	10	20-784	5-334	41742*	31	2-125	13-776	41814	9	1-890	21-523	41886	28	17-671	25-545	41952	35	25-403	4-986
41671	8	22-843	5-789	41743	8	2-592	13-441	41815	10	8-297	21-761					41953	8	2-914	5-065
41672	8	24-080	5-532	41744*	100	4-055	13-088	41816*	26	8-624	21-144					41954	30	8-284	5-464
41673	10	3-365	6-666	41745*	60	4-159	13-206	41817	30	14-049	21-797					41955	30	10-036	5-634
41674	8	5-812	6-377	41746	28	19-194	13-882	41818	10	16-642	21-114					41956	13	10-322	5-298
41675	8	8-843	6-677	41747	10	19-430	13-390	41819*	60	17-770	21-831					41957	10	11-915	5-926
41676	10	10-604	6-035	41748	8	20-007	13-185	41820	21	19-765	21-092					41958	41	22-546	5-223
41677	8	15-212	6-625	41749	40	21-927	13-721	41821	8	20-084	21-806					41959	23	22-801	5-146
41678	18	18-110	6-484	41750	8	23-770	13-136	41822	20	22-221	21-113					41960	20	24-272	5-050
41679	10	18-198	6-835	41751	8	24-945	13-495	41823	12	22-816	21-680					41961	11	25-986	5-411
41680	8	19-475	6-583	41752	8	25-048	13-602	41824	14	24-044	21-618					41962	8	1-625	6-471
41681	14	20-639	6-668	41753	8	3-655	14-742	41825	8	2-257	22-928					41963	11	5-970	6-564
41682	10	21-149	6-606	41754	15	14-752	14-084	41826*	44	4-079	22-635					41964	15	8-916	6-850
41683	8	22-176	6-836	41755	9	16-905	14-159	41827	10	6-384	22-791					41965	15	14-992	6-400
41684	8	24-049	6-266	41756	20	20-075	14-408	41828	8	6-424	22-187					41966	16	15-842	6-213
41685	8	24-423	6-144	41757	25	20-682	14-420	41829	9	7-575	22-962					41967	8	21-486	6-308
41686	9	2-771	7-412	41758	10	21-038	14-715	41830	8	7-700	22-416					41968	8	3-362	7-441
41687	9	3-851	7-824	41759	10	22-506	14-720	41831	8	8-300	22-212					41969	10	5-230	7-691
41688	10	4-550	7-810	41760	9	23-148	14-150	41832	10	8-098	22-876					41970	11	6-748	7-586
41689	8	8-504	7-315	41761	9	23-401	14-838	41833	13	12-881	22-166					41971	35	6-920	7-974
41690	12	9-065	7-500	41762	22	2-371	15-796	41834	25	15-105	22-669					41972	15	15-910	7-823
41691	17	9-515	7-183	41763	10	4-380	15-687	41835	5	15-653	22-074					41973	21	18-620	7-253
41692	12	19-499	7-824	41764	11	5-231	15-360	41836	9	17-491	22-063					41974	10	19-160	7-505
41693	8	19-658	7-668	41765	8	5-400	15-979	41837	9	18-029	22-000					41975	29	22-766	7-451
41694	40	20-614	7-716	41766*	57	9-186	15-454	41838	8	19-404	22-525					41976	9	2-380	8-387
41695	10	21-228	7-682	41767	12	15-516	15-374	41839	13	20-696	22-368					41977	8	6-678	8-960
41696	8	25-772	7-255	41768*	36	22-276	15-896	41840	10	20-996	22-292					41978	15	7-135	8-436
41697	15	1-104	8-773	41769	10	22-835	15-486	41841	10	22-114	22-662								

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42362	45	23°326	10°284	42434	21	16°198	16°821	42506	26	13°874	20°737	42656	8	4°902	4°534
42363	11	23°417	10°665	42435*	54	17°253	16°736	42507*	57	14°964	20°596	42657	24	6°036	4°696
42364	37	25°781	10°384	42436	18	17°596	16°304	42508	27	18°574	20°174	42658	12	7°416	4°842
42365	38	0°776	11°276	42437	41	18°574	16°436	42509	24	20°072	20°622	42659	10	14°112	4°030
42366	42	0°800	11°836	42438	41	19°789	16°286	42510	10	20°737	20°236	42660	9	23°714	4°731
42367	9	4°942	11°908	42439	25	20°020	16°914	42511	35	25°455	20°052	42661	12	1°504	5°780
42368	9	5°117	11°054	42440	16	21°316	16°806	42512	41	2°634	21°648	42662	13	4°143	5°718
42369	12	9°818	11°720	42441	44	22°509	16°874	42513	8	4°925	21°600	42663	36	5°034	5°814
42370	10	12°032	11°944	42442	17	23°004	16°257	42514	40	8°608	21°274	42664	8	8°275	5°700
42371	37	12°575	11°502	42443	33	24°168	16°262	42515	27	16°551	21°407	42665	14	10°748	5°124
42372	9	15°284	11°662	42444	40	0°825	17°503	42516	8	17°197	21°303	42666	36	11°225	5°090
42373	9	16°111	11°062	42445	29	1°026	17°766	42517*	43	19°002	21°204	42667	36	11°526	5°174
42374	23	18°482	11°514	42446	9	2°266	17°780	42518	26	19°403	21°722	42668	8	13°569	5°282
42375	15	23°110	11°277	42447	43	5°104	17°351	42519	46	22°160	21°646	42669	19	14°095	5°665
42376	41	23°484	11°620	42448	28	5°293	17°588	42520	40	22°616	21°919	42670*	38	16°625	5°300
42377	39	0°440	12°691	42449	8	5°697	17°412	42521	42	24°058	21°986	42671	11	17°484	5°576
42378	31	0°670	12°126	42450	40	6°103	17°446	42522	8	7°720	22°627	42672	8	17°548	5°839
42379	24	1°042	12°290	42451	32	8°850	17°304	42523*	9	10°808	22°572	42673	36	18°770	5°338
42380	11	2°542	12°834	42452	40	9°760	17°130	42524	8	13°368	22°345	42674*	39	21°600	5°375
42381	13	2°708	12°315	42453	19	11°290	17°457	42525	21	17°040	22°520	42675	11	21°756	5°116
42382	40	4°024	12°955	42454	43	12°604	17°539	42526	9	17°866	22°634	42676	36	4°826	6°844
42383	43	5°292	12°559	42455	12	13°080	17°463	42527*	44	21°050	22°066	42677	26	4°924	6°362
42384	34	8°464	12°500	42456	8	13°435	17°354	42528*	72	23°846	22°850	42678	24	6°330	6°264
42385	24	11°149	12°932	42457	35	17°110	17°354	42529	9	2°900	23°564	42679	8	8°283	6°594
42386	16	19°383	12°265	42458	8	17°338	17°368	42530	10	4°274	23°228	42680	50	10°530	6°613
42387	8	20°361	12°218	42459	34	19°914	17°266	42531	9	4°509	23°689	42681	11	10°816	6°176
42388	9	20°742	12°875	42460	43	23°526	17°544	42532	20	13°594	23°160	42682	26	12°425	6°118
42389*	77	22°546	12°226	42461	31	25°406	17°045	42533	40	19°030	23°340	42683	8	13°050	6°096
42390	37	23°406	12°947	42462	29	25°504	17°436	42534*	70	0°880	24°694	42684	8	15°184	6°551
42391	33	24°600	12°946	42463	17	0°256	18°700	42535	34	3°204	24°296	42685	13	16°735	6°083
42392	38	25°104	12°375	42464	37	3°236	18°712	42536	14	5°464	24°812	42686*	36	18°622	6°546
42393	34	25°656	12°418	42465	31	4°456	18°835	42537	15	6°611	24°385	42687	14	22°333	6°574
42394	23	1°134	13°486	42466*	91	5°406	18°032	42538*	77	9°610	24°660	42688	32	23°192	6°544
42395	32	1°416	13°392	42467	43	5°810	18°406	42539	9	10°995	24°932	42689	32	1°753	7°786
42396	9	1°986	13°158	42468	29	6°391	18°054	42540	8	11°311	24°148	42690	14	1°956	7°606
42397	50	2°134	13°874	42469	23	7°319	18°406	42541	38	11°369	24°292	42691	23	23°034	7°525
42398	13	2°272	13°308	42470	9	10°326	18°354	42542	8	12°496	24°190	42692	20	1°065	7°269
42399*	67	2°395	13°386	42471	11	11°280	18°322	42543	48	13°057	24°186	42693	12	1°876	7°176
42400	39	3°810	13°913	42472	39	15°836	18°484	42544	9	15°920	24°062	42694	14	2°456	7°034
42401*	56	7°970	13°936	42473	34	16°276	18°883	42545	24	18°396	24°416	42695	14	1°585	7°216
42402	24	8°062	13°996	42474*	47	17°117	18°832	42546	42	18°530	24°066	42696	20	2°082	8°536
42403	40	9°845	13°602	42475	19	22°394	18°018	42547	41	19°922	24°404	42697	40	4°597	8°878
42404	39	13°797	13°824	42476	9	23°344	18°924	42548	8	22°942	24°914	42698	9	6°886	8°376
42405	11	19°144	13°852	42477	16	23°487	18°634	42549	58	23°844	24°998	42699	12	10°706	8°375
42406	8	20°309	13°192	42478	23	24°384	18°753	42550	44	24°114	24°100	42700	11	11°814	8°025
42407	31	24°290	13°285	42479	32	25°226	18°226	42551	40	25°410	24°122	42701	14	13°610	8°731
42408	8	24°915	13°739	42480	30	0°394	19°252	42552	8	0°300	25°202	42702	28	16°600	8°035
42409	8	25°409	13°412	42481	10	1°290	19°138	42553	32	4°565	25°192	42703	14	18°506	8°234
42410	31	2°746	14°313	42482	10	4°275	19°220	42554	35	5°550	25°215	42704	8	20°686	8°202
42411	42	4°423	14°318	42483	8	5°145	19°998	42555	31	5°886	25°385	42705	8	24°334	8°847
42412	40	5°394	14°804	42484	24	5°554	19°166	42556	28	7°478	25°700	42706	48	0°280	9°244
42413	39	6°502	14°259	42485	29	6°120	19°392	42557	33	8°110	25°276	42707	14	1°264	9°170
42414	27	14°758	14°607	42486	8	9°178	19°200	42558	9	10°110	25°559	42708	16	3°644	9°254
42415	13	16°300	14°288	42487	29	9°548	19°065	42559	32	10°845	25°202	42709	9	3°884	9°540
42416	41	22°634	14°240	42488	40	13°573	19°690	42560	20	12°429	25°866	42710	21	3°935	9°668
42417	25	24°630	14°915	42489	10	14°606	19°506	42561	12	13°438	25°794	42711	19	6°206	9°451
42418	8	0°654	15°739	42490	8	15°062	19°654	42562	11	17°730	25°782	42712*	48	9°612	9°410
42419	34	4°717	15°651	42491	8	18°108	19°734	42563	41	19°561	25°001	42713	30	10°044	9°286
42420	39	5°140	15°770	42492	23	18°282	19°732	42564	31	21°065	25°034	42714	8	10°586	9°657
42421	30	5°724	15°520	42493	40	18°416	19°957	42565	8	22°954	25°410	42715	8	12°755	9°484
42422	8	6°360	15°747	42494	48	19°126	19°815	42566	35	24°911	25°846	42716	36	13°024	9°796
42423	39	9°861	15°787	42495	17	21°005	19°804					42717	10	14°574	9°924
42424	32	14°160	15°608	42496	40	21°320	19°877					42718	34	15°814	9°562
42425	36	15°267	15°219	42497	23	22°644	19°188					42719	16	17°424	9°748
42426	40	19°521	15°716	42498	21	24°484	19°766					42720	17	19°576	9°906
42427	38	22°360	15°953	42499	42	24°534	19°219					42721	8	19°753	9°362
42428	39	23°306	15°958	42500	10	25°199	19°374					42722	9	23°967	9°206
42429	46	23°848	15°260	42501	12	0°200	20°907					42723	18	24°980	9°562
42430	42	4°608	16°086	42502	13	5°078	20°831					42724	36	1°103	10°798
42431	37	7°415	16°600	42503	29	5°734	20°600					42725	8	2°086	10°904
42432	14	10°586	16°048	42504	26	10°806	20°494					42726	10	2°876	10°149
42433	36	15°528	16°881	42505	13	13°084	20°466					42727	17	3°324	10°455

## R.A. 15h 36m

Plate 712; 1916 May 1.

## Provisional Constants.

$$A \quad B \quad C$$

$$-0.02575 + 0.00578 + 0.802$$

$$D \quad E \quad F$$

$$-0.00529 - 0.02561 - 0.205$$

$$Mag. = 16.7 - 1.05\sqrt{d}$$

No.	d	x	y
42601	20	0°508	0°413
42602	17	1°321	0°676
42603	18	2°506	0°556
42604	12	4°332	0°804
42605	8	7°642	0°694
42606	8	9°312	0°536
42607	24	10°086	0°596
42608	50	10°530	0°613
42609	11	10°816	0°176
42610	26	12°425	0°118
42611	18	13°050	0°956
42612	8	15°184	0°551
42613	20	16°735	0°803
42614	21	17°605	0°894
42615	9	18°171	0°944
42616	9	19°106	0°944
42617	8	19°224	0°955
42618	36	22°425	0°802
42619	23	23°634	0°525
42620	13	0°329	1°065
42621	32	1°876	1°876
42622	8	2°456	1°935
42623	34	8°064	1°585
42624	32	10°288	1°704
42625	12	13°435	1°154
42626	8	13°756	1°556
42627	46	14°125	1°925
42628	8	18°741	1°260
42629	30	20°098	1°086
42630	12	20°342	1°219
42631	14	24°913	1°404
42632	9	0°506	2°032
42633	8	2°793	2°095
42634	8	3°133	2°423
42635	13	6°142	2°720
42636	15	12°486	2°280
42637	34	14°352	2°220
42638	15	14°978	2°380
42639	16	15°495	2°507
42640	31	16°244	2°380
42641	26	16°615	2°308
42642	10	17°144	2°370
42643	20	17°402	2°507
42644	10	19°134	2°478
42645	20	23°718	2°478
42646	11	23°912	2°180
42647	40	3°249	3°671
42648	12	3°454	3°456
42649	17	3°866	3°943
42650	17	4°264	3°021
42651	44	8°066	3°230
42652	8	16°558	3°823
42653	10	23°896	3°674
42654	16	25°254	3°988
42655	80	4°411	4°882

42728	11	5 35.36	10 36.00	42800	19	32 69.66	15 70.22	42872	8	3 23.32	21 46.00	43006	13	8 33.00	6 34.00
42729	13	5 35.56	10 37.22	42801	22	0 19.77	16 47.66	42873	36	7 72.55	21 99.22	43007	37	8 37.88	6 05.88
42730	28	10 68.66	10 65.44	42802	14	0 84.66	16 77.44	42874	36	10 87.66	21 74.33	43008	20	12 44.22	6 70.22
42731	8	20 74.44	10 83.34	42803	15	1 14.66	16 47.33	42875	17	11 57.66	21 56.66	43009	14	14 65.22	6 62.00
42732	38	24 90.22	10 90.00	42804	14	2 01.11	16 76.66	42876	34	12 63.22	21 79.44	43010	9	21 88.66	6 30.22
42733	38	25 71.66	10 56.44	42805	12	5 64.44	16 44.66	42877	17	15 70.44	21 59.66	43011	10	6 40.22	7 03.77
42734	8	0 89.66	11 70.11	42806	36	9 38.11	16 92.22	42878	28	17 35.22	21 42.66	43012	12	7 33.00	7 05.99
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43895																			

44207	8	24°550	15°318	44279	8	18°884	24°633	44344	14	15°506	8°198	<b>R.A. 16<sup>h</sup> 32<sup>m</sup></b> Plate 701; 1916 April 28. <i>Provisional Constants.</i> A B C -02536 +00371 +2293 D E F -00390 -02587 -1734 Mag. = 17.7 - 1.05√d				44506	120	2°495	7°159
44208	9	0°264	16°133	44280	8	5°322	25°749	44345	8	17°478	8°975					44507	12	0°788	8°376
44209	43	1°286	16°764	44281	12	8°433	25°382	44346	11	21°334	8°954					44508	25	9°054	8°004
44210	8	2°080	16°074	44282	8	10°340	25°344	44347	10	1°080	9°302	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44509	40	15°708	8°956
44211	8	3°097	16°784	44283	32	12°947	25°701	44348	12	4°192	9°670					44510	8	1°296	9°634
44212	8	5°446	16°426					44349	8	4°394	9°840					44511	36	6°749	9°195
44213	8	11°608	16°294					44350	104	10°003	9°520	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44512	35	9°370	9°688
44214	44	12°660	16°324					44351	25	12°044	9°566					44513	26	16°598	9°412
44215	14	5°886	17°748					44352	8	13°078	9°672					44514	28	17°149	9°606
44216	64	8°814	17°745					44353	33	14°236	9°749	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44515	39	22°434	9°452
44217	45	8°836	17°597					44354	37	20°126	9°758					44516	41	25°694	9°632
44218	8	9°445	17°066					44355	8	23°497	9°320					44517	39	1°272	10°356
44219	10	10°656	17°925					44356	11	3°014	10°521	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44518	9	8°842	10°258
44220	31	11°205	17°658					44357	9	4°865	10°732					44519	11	9°106	10°621
44221	15	15°478	17°330					44358	19	8°411	10°775					44520	120	22°714	10°856
44222	8	19°721	17°788					44359	16	15°640	10°966	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44521	9	24°894	10°436
44223	8	21°328	17°854					44360	15	23°466	10°040					44522	10	0°890	11°650
44224	8	22°098	17°695					44361	9	25°043	10°776					44523	37	2°854	11°083
44225	8	22°428	17°563					44362	19	0°418	11°014	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44524	11	4°581	11°502
44226	8	24°459	17°200					44363	16	11°300	11°981					44525	8	5°600	11°016
44227	11	6°274	18°428					44364	10	12°008	11°462					44526	8	8°476	11°088
44228	8	7°958	18°534					44365	10	18°606	11°280	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44527	17	13°968	11°227
44229	41	9°612	18°650					44366	12	22°376	11°828					44528	42	23°111	11°768
44230	51	16°135	18°536					44367	8	23°076	11°335					44529	40	0°194	12°150
44231	34	16°316	18°402					44368	8	23°699	11°786	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44530	8	0°238	12°901
44232	8	16°563	18°420					44369	8	10°591	12°572					44531	39	0°838	12°980
44233	12	3°956	19°108					44370	56	12°512	12°504					44532	10	1°516	12°100
44234	25	4°569	19°057					44371	8	13°583	12°160	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44533	33	11°186	12°756
44235	12	5°494	19°116					44372	23	18°090	12°136					44534	140	14°830	12°676
44236	12	6°086	19°070					44373	13	23°016	12°662					44535	21	15°130	12°386
44237	100	6°306	19°354					44374	9	4°230	13°947	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44536	21	15°162	12°272
44238	38	7°027	19°884					44375	28	6°100	13°088					44537	41	17°290	12°365
44239	8	9°368	19°756					44376	40	14°634	13°650					44538	37	17°550	12°012
44240	28	10°663	19°750					44377	28	19°816	13°039	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44539	33	24°575	12°324
44241	8	21°850	19°270					44378	12	5°842	14°675					44540	44	25°220	12°793
44242	31	25°076	19°478					44379	8	2°600	15°602					44541	80	8°100	13°600
44243	8	2°776	20°348					44380	190	5°192	15°036	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44542	9	16°945	13°448
44244	23	7°524	20°852					44381	25	6°744	15°365					44543	9	2°246	14°526
44245	8	7°580	20°933					44382	11	16°525	15°836					44544	12	7°480	14°558
44246	8	10°544	20°384					44383	14	20°301	15°606	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44545	80	12°312	14°426
44247	22	14°886	20°458					44384	19	25°016	15°409					44546	10	22°478	14°996
44248	8	17°080	20°446					44385	15	16°352	16°944					44547	9	24°938	14°535
44249	8	18°600	20°333					44386	23	24°425	16°680	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44548	15	25°924	14°776
44250	8	19°046	20°860					44387	8	2°740	17°146					44549	42	2°856	15°716
44251	8	19°617	20°396					44388	8	4°956	17°800					44550	10	7°415	15°618
44252	8	20°199	20°645					44389	77	12°652	17°600	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44551	8	13°244	15°268
44253	29	20°465	20°308					44390	9	11°569	18°740					44552	8	17°176	15°425
44254	8	6°120	21°318					44391	11	21°185	18°832					44553	48	20°439	15°098
44255	8	8°350	21°143					44392	8	21°326	18°246	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44554	39	22°590	15°632
44256	19	10°448	21°688					44393	10	22°244	18°497					44555	9	22°484	15°210
44257	31	1°082	22°656					44394	15	3°387	19°417					44556	10	23°611	15°083
44258	15	2°214	22°068					44395	9	7°408	19°500	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44557	8	11°421	15°104
44259	8	8°936	22°085					44396	25	23°200	19°934					44558	43	2°270	16°992
44260	8	12°804	22°408					44397	10	23°068	21°306					44559	8	4°464	16°160
44261	8	13°794	22°708					44398	8	2°098	22°667	<b>R.A. 16<sup>h</sup> 24<sup>m</sup></b> Plate 690; 1916 April 26. <i>Provisional Constants.</i> A B C -02555 +00810 +1059 D E F -00792 -02546 -3073 Mag. = 16.9 - 1.05√d				44560	17	12°566	16°404

44578*	51	24°42'6"	21°18'2"	44632	14	9°39'8"	5°48'7"	44704	20	17°42'0"	15°02'8"	44776	8	10°7'02"	25°39'0"	44834	8	7°05'4"	4°20'8"
44579	33	13°43'6"	22°13'4"	44633*	56	15°10'0"	5°66'3"	44705	8	20°21'5"	15°8'70"	44777	10	11°78'2"	25°42'4"	44835	16	8°12'1"	4°36'3"
44580	8	21°6'38"	22°00'7"	44634	9	15°7'22"	5°74'0"	44706	8	21°6'44"	15°6'74"	44778	8	11°79'9"	25°04'4"	44836	8	10°24'4"	4°01'1"
44581	9	22°18'2"	22°04'7"	44635	20	20°00'4"	5°87'5"	44707	13	22°9'12"	15°46'8"	44779	8	11°83'0"	25°04'4"	44837	30	20°32'6"	4°70'4"
44582	21	22°48'4"	22°21'8"	44636	20	21°7'40"	5°43'3"	44708	13	25°46'5"	15°7'16"	44780	8	12°38'8"	25°33'7"	44838	9	21°84'8"	4°8'8"
44583	15	3°72'4"	23°48'9"	44637	14	6°10'0"	6°77'0"	44709	10	8°01'4"	16°44'5"	44781	11	12°41'8"	25°25'6"	44839	9	22°44'6"	4°78'6"
44584	17	11°9'36"	23°14'5"	44638	20	18°44'6"	6°59'8"	44710*	57	8°19'3"	16°73'7"	44782	13	13°41'2"	25°30'8"	44840	8	23°65'7"	4°06'2"
44585	39	12°7'8"	23°18'8"	44639	8	0°05'4"	7°29'4"	44711	10	10°8'64"	16°25'0"	44783	8	13°8'12"	25°62'8"	44841	11	24°62'2"	4°13'4"
44586	32	15°8'70"	23°47'6"	44640	10	1°01'6"	7°53'4"	44712*	45	12°04'4"	16°13'4"	44784	10	16°8'01"	25°18'8"	44842	45	25°04'1"	4°52'7"
44587	42	21°0'46"	23°59'6"	44641*	113	1°22'0"	7°39'4"	44713	13	13°29'4"	16°52'8"	44785	10	17°41'0"	25°71'2"	44843	12	15°03'4"	5°78'2"
44588	8	21°42'0"	23°50'4"	44642	8	2°45'9"	7°47'1"	44714	30	13°66'5"	16°67'2"	44786	12	20°31'8"	25°78'0"	44844	30	15°81'6"	5°32'0"
44589	9	3°66'3"	24°08'8"	44643	12	4°09'3"	7°61'4"	44715	8	14°10'0"	16°91'1"	44787	12	20°34'2"	25°63'8"	44845	13	19°641"	5°95'8"
44590*	62	9°39'7"	24°99'4"	44644	9	9°8'37"	7°47'6"	44716	31	15°59'6"	16°18'6"	44788	54	20°52'7"	25°42'5"	44846	26	22°12'6"	5°50'4"
44591	42	14°06'0"	24°38'6"	44645	26	13°03'6"	7°41'8"	44717	23	17°88'0"	16°55'2"	44789	8	20°73'1"	25°27'8"	44847	22	24°20'2"	5°30'9"
44592	27	21°89'4"	24°41'1"	44646*	39	15°26'8"	7°12'8"	44718	10	18°21'4"	16°18'5"	44790*	44	22°48'2"	25°17'4"	44848	8	5°74'0"	6°04'0"
44593	10	5°87'6"	25°76'6"	44647	8	25°60'4"	7°35'9"	44719	8	23°31'0"	16°33'1"					44849*	36	7°96'0"	6°66'4"
44594	41	6°63'7"	25°60'3"	44648	8	0°55'4"	8°23'9"	44720	31	2°92'4"	17°43'6"					44850	31	14°05'6"	6°99'5"
				44649	8	4°14'4"	8°35'9"	44721	20	6°12'4"	17°62'2"					44851	8	20°20'4"	6°78'0"
				44650	24	9°69'3"	8°96'0"	44722	14	6°67'0"	17°30'2"					44852	25	21°52'8"	6°79'9"
				44651	8	16°53'4"	8°39'2"	44723	18	8°13'4"	17°02'5"					44853	36	23°57'6"	6°36'6"
				44652	8	16°76'7"	8°38'5"	44724	8	15°34'8"	17°77'7"					44854	9	3°24'7"	7°41'0"
				44653	18	0°19'9"	9°03'7"	44725	10	10°03'4"	18°63'3"					44855	9	7°62'5"	7°23'2"
				44654	16	3°45'8"	9°42'2"	44726	20	10°606"	18°71'8"					44856	31	16°100"	7°11'0"
				44655	8	5°99'0"	9°04'3"	44727	31	12°86'0"	18°50'5"					44857	16	16°39'2"	7°06'0"
				44656	8	11°04'6"	9°05'6"	44728	11	13°35'8"	18°02'8"					44858	21	17°81'6"	7°14'5"
				44657	22	13°99'4"	9°82'7"	44729	8	16°36'2"	18°66'8"					44859	12	18°50'4"	7°22'2"
				44658	11	18°86'5"	9°37'0"	44730	11	16°92'8"	18°47'6"					44860	8	19°03'4"	7°31'8"
				44659	32	19°13'0"	9°60'6"	44731	8	21°22'1"	18°66'5"					44861	8	21°58'2"	7°78'8"
				44660	8	21°93'4"	9°73'9"	44732	14	23°49'4"	18°83'6"					44862	30	22°23'4"	7°08'8"
				44661	8	2°67'2"	10°65'8"	44733	8	5°58'7"	19°95'6"					44863	32	23°32'2"	7°14'9"
				44662	10	18°09'8"	10°03'2"	44734	11	7°90'6"	19°80'5"					44864	23	23°43'6"	7°55'5"
				44663	103	0°48'6"	11°10'1"	44735*	43	15°33'6"	19°64'2"					44865	12	8°93'9"	8°03'6"
				44664	8	3°57'8"	11°86'6"	44736	8	8°83'4"	20°27'6"					44866	8	14°91'6"	8°16'4"
				44665	9	4°11'5"	11°92'0"	44737	10	8°93'4"	20°88'5"					44867	20	18°82'4"	8°38'8"
				44666	8	5°39'6"	11°80'3"	44738	8	20°81'7"	20°42'0"					44868	39	20°30'2"	8°38'1"
				44667*	34	21°74'8"	11°69'8"	44739	8	23°22'0"	20°48'5"					44869*	61	22°22'2"	8°55'2"
				44668*	38	25°05'0"	11°98'6"	44740	14	23°85'0"	20°27'7"					44870	30	22°29'2"	8°53'0"
				44669	21	0°90'8"	12°01'2"	44741	9	25°01'5"	20°12'0"					44871	16	23°63'2"	8°62'6"
				44670	13	2°37'9"	12°54'4"	44742	8	0°66'3"	21°47'4"					44872	9	25°58'9"	8°17'6"
				44671*	49	7°75'4"	12°45'2"	44743*	44	2°34'8"	21°40'3"					44873*	43	6°21'8"	9°46'6"
				44672	8	12°27'4"	12°50'6"	44744	19	6°02'4"	21°61'2"					44874	21	14°67'4"	8°24'6"
				44673	12	21°61'9"	12°53'3"	44745	9	6°71'6"	21°42'9"					44875	32	14°84'6"	9°01'1"
				44674	24	3°03'1"	13°00'4"	44746	12	9°63'6"	21°94'6"					44876	8	15°041"	9°54'8"
				44675	25	5°14'2"	13°48'0"	44747	8	10°66'7"	21°19'0"					44877	30	16°88'9"	9°48'4"
				44676	12	5°58'0"	13°90'4"	44748	19	10°77'9"	21°08'4"					44878	8	18°11'6"	9°42'4"
				44677	17	8°76'8"	13°55'0"	44749	13	21°43'3"	21°35'4"					44879*	41	19°05'2"	9°56'6"
				44678	8	8°06'6"	13°91'6"	44750	8	21°81'7"	21°14'0"					44880*	45	22°13'5"	9°57'7"
				44679	8	14°99'4"	13°83'4"	44751	20	22°10'5"	21°95'4"					44881	41	25°28'3"	9°08'4"
				44680	18	16°24'6"	13°50'6"	44752*	46	23°20'8"	21°31'4"					44882	8	25°61'0"	9°78'6"
				44681	15	16°90'7"	13°78'2"	44753	8	0°12'0"	22°30'1"					44883	12	25°87'4"	9°51'1"
				44682	8	18°15'4"	13°07'5"	44754	10	0°42'2"	22°46'9"					44884	12	6°31'2"	10°78'3"
				44683	10	20°91'0"	13°52'3"	44755	10	7°81'6"	22°47'5"					44885*	58	13°31'6"	10°32'6"
				44684	8	21°11'2"	13°99'3"	44756	11	8°39'3"	22°55'2"					44886	32	14°243"	10°58'4"
				44685	8	23°91'1"	13°34'7"	44757	15	10°25'6"	22°61'3"					44887	8	4°69'8"	11°05'2"
				44686*	48	24°05'0"	13°52'7"	44758	13	25°63'0"	22°94'6"					44888	10	9°89'6"	11°96'8"
				44687	8	2°77'4"	14°75'2"	44759	13	8°91'6"	23°50'8"					44889	25	13°61'6"	11°93'4"
				44688	9	3°75'0"	14°68'1"	44760*	57	12°12'2"	23°71'4"					44890	8	14°56'4"	11°50'0"
				44689	10	7°67'4"	14°20'2"	44761	10	16°66'2"	23°49'6"					44891	12	16°08'8"	11°44'8"
				44690	88	12°05'5"	14°51'6"	44762	8	17°07'2"	23°71'0"					44892	35	17°00'6"	11°78'6"
				44691	11	14°02'4"	14°21'7"	44763	8	21°06'5"	23°56'5"					44893	28	18°67'8"	11°67'4"
				44692	8	0°31'6"	15°25'0"	44764	8	22°65'9"	23°77'2"					44894	9	18°77'6"	11°60'0"
				44693	8	0°32'7"	15°46'0"	44765	21	10°82'8"	24°12'2"					44895	30	19°37'0"	11°03'6"
				44694	18	0°44'6"	15°88'2"	44766	10	13°61'6"	24°00'9"					44896	8	20°81'6"	11°65'6"
				44695	8	1°45'0"	15°31'8"	44767	8	18°04'6"	24°16'6"					44897	8	21°28'9"	11°56'5"
				44696	9	2°32'5"	15°32'7"	44768	14	18°04'9"	24°55'8"					44898	28	21°48'0"	11°20'0"
				44697	8	2°32'6"	15°40'1"	44769	8	19°12'5"	24°09'0"					44899	12	21°59'6"	11°74'5"
				44698*	41	5°95'6"	15°76'7"	44770	15	19°29'4"	24°07'1"					44900	20	22°49'5"	11°29'4"
				44699	12	9°71'8"	15°76'4"	44771	8	20°70'6"	24°92'8"					44901	8	24°88'2"	11°22'0"
				44700	21	9°77'4"	15°71'6"	44772	10	21°11'2"	24°27'4"					44902	8	25°68'4"	11°37'8"
				44701	14	11°79'4"	15°36'5"	44773	8	21°08'8"	24°35'8"					44903	8	0°127"	12°01'7"
				44702	17	11°97'4"	15°44'8"	44774	21	6°57'0"	25°12'4"					44904*	39	2°71'4"	12°03'8"
				44703	12	11°99'8"	15°02'6"	44775	8	9°33'3"	25°48'4"					44905	30	15°14'2"	12°95'8"

R.A. 16<sup>h</sup> 48<sup>m</sup>

Plate 715



44906	37	15-066	12-786	44978	10	19-703	19-344	45050	8	9-578	24-166	45119	11	10-032	2-191	45191	16	13-310	10-618
44907	62	20-644	12-233	44979	21	20-272	19-695	45051	12	9-910	24-654	45120	46	19-730	2-104	45192	12	15-332	10-736
44908	8	21-305	12-327	44980	8	20-680	19-846	45052	36	12-290	24-441	45121	43	20-233	2-673	45193	12	25-296	10-563
44909	41	23-026	12-860	44981	9	22-800	19-842	45053	24	13-582	24-044	45122	9	22-488	2-522	45194	17	0-202	11-008
44910	11	23-643	12-894	44982	8	0-928	20-550	45054	24	14-370	24-486	45123	14	23-145	2-381	45195	8	3-391	11-038
44911	48	1-722	13-586	44983	16	1-556	20-337	45055	24	16-062	24-279	45124	21	23-744	2-480	45196	45	4-082	11-008
44912	26	7-826	13-590	44984	11	2-723	20-174	45056	8	16-454	24-917	45125	13	0-272	3-159	45197	14	4-330	11-608
44913	9	14-658	13-433	44985	8	3-262	20-241	45057	10	19-250	24-778	45126	13	2-210	3-816	45198	11	4-751	11-387
44914	30	14-678	13-265	44986	27	3-832	20-903	45058	8	21-112	24-655	45127	25	3-890	3-366	45199	9	6-654	11-436
44915	11	16-160	13-792	44987	18	6-138	20-066	45059	11	23-882	24-218	45128	31	19-169	3-407	45200	37	6-776	11-888
44916	8	18-173	13-271	44988	20	7-254	20-836	45060	8	23-979	24-226	45129	20	20-775	3-050	45201	10	8-174	11-370
44917	33	18-991	13-570	44989	8	8-726	20-182	45061	44	0-216	25-244	45130	13	21-849	3-337	45202	8	9-787	11-415
44918	8	19-248	13-344	44990	18	9-220	20-316	45062	13	4-537	25-806	45131	13	22-580	3-282	45203	27	12-614	11-223
44919	8	23-265	13-338	44991	25	12-262	20-326	45063	8	5-782	25-805	45132	10	25-322	3-573	45204	8	13-398	11-411
44920	8	7-814	14-824	44992	67	16-422	20-984	45064	11	6-616	25-193	45133	10	0-044	4-502	45205	80	23-979	11-838
44921	27	8-342	14-719	44993	20	20-600	20-970	45065	12	8-902	25-735	45134	13	1-808	4-994	45206	19	24-958	11-632
44922	12	12-079	14-305	44994	16	22-388	20-148	45066	9	11-248	25-383	45135	46	3-232	4-193	45207	19	25-060	11-632
44923	30	16-768	14-702	44995	28	23-708	20-450	45067	18	12-987	25-410	45136	33	4-266	4-040	45208	8	25-430	11-707
44924	8	17-467	14-562	44996	23	24-260	20-582	45068	45	13-065	25-970	45137	26	4-700	4-499	45209	44	1-360	12-554
44925	23	20-564	14-896	44997	47	0-916	21-376	45069	23	14-414	25-750	45138	22	6-396	4-890	45210	9	4-196	12-993
44926	8	20-594	14-209	44998	28	7-750	21-310	45070	20	14-542	25-591	45139	30	9-782	4-618	45211	8	6-354	12-710
44927	8	21-908	14-876	44999	8	8-742	21-416	45071	28	14-948	25-877	45140	10	11-706	4-298	45212	10	8-438	12-032
44928	8	24-547	14-618	45000	10	10-514	21-581	45072	10	15-230	25-152	45141	20	12-500	4-328	45213	74	8-509	12-918
44929	12	24-864	14-993	45001	32	12-100	21-140	45073	33	16-716	25-262	45142	35	13-752	4-122	45214	18	10-730	12-132
44930	35	25-590	14-729	45002	50	13-214	21-205	45074	8	16-942	25-207	45143	9	13-840	4-214	45215	18	15-862	12-028
44931	15	0-596	15-534	45003	11	13-308	21-949	45075	10	19-066	25-426	45144	8	14-251	4-050	45216	73	20-206	12-078
44932	9	1-980	15-090	45004	8	13-476	21-345	45076	12	22-051	25-427	45145	71	20-361	4-482	45217	104	7-114	13-280
44933	12	3-148	15-705	45005	10	14-757	21-087	45077	10	22-070	25-500	45146	25	24-142	4-350	45218	12	7-728	13-258
44934	10	6-586	15-555	45006	12	15-674	21-964	45078	29	24-992	25-403	45147	36	25-086	4-236	45219	14	8-673	13-150
44935	23	7-193	15-382	45007	9	16-520	21-602	45079	42	25-000	25-118	45148	9	12-756	5-966	45220	12	10-695	13-092
44936	36	9-338	15-158	45008	16	18-664	21-840					45149	23	15-730	5-850	45221	9	10-956	13-634
44937	38	15-837	15-834	45009	17	19-912	21-604					45150	32	0-959	6-852	45222	14	20-491	13-491
44938	31	22-216	15-416	45010	12	21-436	21-590					45151	39	1-200	6-064	45223	17	20-578	13-503
44939	20	23-639	15-966	45011	15	24-100	21-131					45152	16	6-664	6-440	45224	14	20-775	13-220
44940	8	5-108	16-670	45012	12	3-355	22-999					45153	16	9-085	6-008	45225	27	24-682	13-343
44941	22	10-369	16-246	45013	9	4-482	22-514					45154	25	9-099	6-028	45226	19	2-635	14-668
44942	8	12-420	16-766	45014	37	4-519	22-845					45155	28	11-071	6-704	45227	36	3-354	14-392
44943	13	18-716	16-551	45015	10	4-691	22-158					45156	17	12-582	6-053	45228	42	3-798	14-706
44944	8	18-922	16-318	45016	22	8-310	23-388					45157	10	13-966	6-299	45229	8	7-773	14-594
44945	21	20-288	16-980	45017	8	8-549	22-740					45158	22	19-092	6-897	45230	35	9-084	14-046
44946	8	21-470	16-468	45018	22	10-550	22-490					45159	27	23-263	6-858	45231	13	17-474	14-054
44947	15	24-036	16-424	45019	8	10-952	22-674					45160	26	1-078	7-155	45232	9	18-350	14-772
44948	10	24-506	16-778	45020	13	11-816	22-398					45161	25	11-192	7-152	45233	24	20-280	14-376
44949	30	8-721	17-914	45021	10	11-885	22-604					45162	26	19-036	7-306	45234	30	20-454	14-598
44950	36	10-024	17-872	45022	10	12-046	22-120					45163	27	19-550	7-344	45235	8	22-422	14-447
44951	39	13-973	17-432	45023	34	13-050	22-076					45164	9	25-307	7-727	45236	32	22-947	14-640
44952	8	14-443	17-104	45024	8	14-198	22-902					45165	13	1-294	8-321	45237	11	24-490	14-472
44953	17	17-200	17-508	45025	21	14-899	22-936					45166	43	2-950	8-752	45238	24	25-538	14-478
44954	8	17-456	17-036	45026	8	15-547	22-085					45167	17	4-054	8-488	45239	20	1-428	15-662
44955	17	19-402	17-959	45027	8	20-130	22-606					45168	27	11-144	8-493	45240	24	18-359	15-155
44956	31	20-586	17-950	45028	11	21-573	22-820					45169	18	11-388	8-903	45241	13	19-560	15-782
44957	8	21-577	17-648	45029	18	24-345	22-729					45170	26	19-828	8-289	45242	8	20-305	15-149
44958	20	22-176	17-792	45030	8	5-763	23-478					45171	27	21-790	8-170	45243	22	24-626	15-508
44959	17	1-194	18-902	45031	11	5-044	23-206					45172	20	22-540	8-051	45244	13	1-830	16-111
44960	8	5-134	18-604	45032	24	6-556	23-072					45173	19	25-222	8-818	45245	11	4-891	16-062
44961	13	8-750	18-213	45033	8	6-600	23-139					45174	16	3-559	9-509	45246	30	6-428	16-120
44962	15	13-175	18-801	45034	8	6-844	23-788					45175	11	5-436	9-833	45247	8	10-194	16-882
44963	8	13-480	18-352	45035	9	7-798	23-226					45176	10	6-241	9-164	45248	8	10-398	16-028
44964	45	13-638	18-673	45036	18	8-922	23-910					45177	27	6-644	9-232	45249	11	10-692	16-388
44965	9	13-761	18-085	45037	8	12-954	23-567					45178	29	8-361	9-536	45250	28	14-599	16-250
44966	10	20-176	18-248	45038	10	13-416	23-684					45179	17	19-395	9-784	45251	29	18-290	16-318
44967	10	21-157	18-744	45039	28	15-714	23-710					45180	13	19-596	9-678	45252	29	18-635	16-848
44968	8	21-686	18-410	45040	8	16-489	23-814					45181	11	19-674	9-641	45253	11	19-698	16-168
44969	23	22-452	18-963	45041	14	17-740	23-001					45182	10	20-579	9-851	45254	37	20-875	16-045
44970	8	4-204	19-236	45042	10	18-380	23-636					45183	18	20-746	9-096	45255	20	22-106	16-252
44971	30	6-858	19-350	45043	15	22-868	23-436					45184	34	21-118	9-598	45256	21	22-428	16-189
44972	8	7-326																	

45263	19	5°090	17°788	45335	23	15°149	22°582	45407	37	15°545	0°450	45479	40	2°748	4°728	45551	8	22°900	8°042
45264	23	5°462	17°531	45336	32	16°251	22°748	45408	29	17°399	0°794	45480	12	2°981	4°667	45552	17	2°918	9°312
45265	18	9°609	17°144	45337	26	16°617	22°650	45409	8	17°891	0°064	45481	9	4°757	4°572	45553	21	4°015	9°650
45266	19	20°766	17°391	45338	22	16°678	22°620	45410	8	18°536	0°286	45482*	37	6°693	4°134	45554	15	4°345	9°652
45267	20	21°052	17°688	45339	8	17°906	22°754	45411	8	19°853	0°712	45483	8	8°088	4°027	45555	32	5°230	9°154
45268	11	22°532	17°229	45340	35	18°728	22°154	45412	40	20°560	0°226	45484	19	9°526	4°476	45556	8	12°093	9°700
45269	34	24°794	17°964	45341	9	21°286	22°208	45413	33	21°034	0°070	45485	13	11°386	4°354	45557	9	12°226	9°129
45270	43	25°303	17°888	45342	22	25°891	22°814	45414	13	23°289	0°143	45486	9	11°746	4°808	45558	9	14°760	9°608
45271	12	25°702	17°927	45343	16	0°782	23°142	45415	26	23°546	0°065	45487	41	13°776	4°302	45559	32	15°854	9°325
45272	19	0°289	18°678	45344	25	11°255	23°938	45416	31	24°514	0°434	45488	22	14°724	4°022	45560	8	16°344	9°324
45273	22	5°637	18°614	45345	26	11°515	23°342	45417	27	25°298	0°160	45489	8	14°946	4°596	45561	8	17°366	9°218
45274	13	8°088	18°034	45346	13	11°844	23°081	45418	35	25°850	0°884	45490	14	19°274	4°583	45562	8	18°324	9°457
45275	36	8°324	18°077	45347	29	13°502	23°382	45419	12	1°956	1°502	45491	8	19°510	4°946	45563	8	18°072	9°874
45276*	51	8°382	18°452	45348	10	18°374	23°969	45420	10	5°090	1°374	45492	8	20°011	4°674	45564	31	21°296	9°330
45277	8	15°083	18°283	45349	14	19°012	23°048	45421	10	6°344	1°670	45493	20	21°447	4°092	45565	10	22°854	9°088
45278	8	15°408	18°540	45350	8	20°249	23°122	45422	8	9°833	1°446	45494	25	21°784	4°844	45566	38	23°000	9°535
45279	31	15°938	18°300	45351	25	21°962	23°643	45423	11	11°160	1°050	45495	15	25°334	4°080	45567	9	24°751	9°609
45280	16	17°406	18°248	45352	29	23°615	23°009	45424	8	17°134	1°412	45496	79	25°576	4°899	45568*	41	2°980	10°344
45281	11	17°625	18°658	45353	8	23°718	23°136	45425	8	17°866	1°244	45497	8	1°108	5°926	45569	8	4°825	10°502
45282*	46	19°888	18°131	45354	26	25°194	23°657	45426	25	18°678	1°352	45498	8	9°691	5°705	45570	8	8°084	10°510
45283	28	20°194	18°819	45355	8	1°126	24°698	45427	17	20°712	1°697	45499*	77	10°816	5°976	45571	23	9°071	10°099
45284	26	22°508	18°160	45356*	44	2°939	24°788	45428	22	21°574	1°372	45500	23	11°740	5°140	45572	40	10°556	10°402
45285	42	22°675	18°475	45357*	39	8°702	24°084	45429	8	22°960	1°258	45501	26	12°252	5°227	45573	33	11°480	10°500
45286	10	23°378	18°020	45358	8	11°532	24°478	45430	34	23°156	1°717	45502	17	19°024	5°395	45574	40	13°564	10°614
45287	8	25°736	18°540	45359*	38	13°534	24°569	45431	24	23°186	1°266	45503	50	22°320	5°434	45575	13	13°996	10°266
45288	8	0°743	19°547	45360	31	13°708	24°907	45432	10	23°394	1°602	45504	9	23°976	5°604	45576	8	14°398	10°822
45289	19	5°206	19°343	45361	14	15°351	24°380	45433	29	25°359	1°769	45505*	100	8°504	6°417	45577	19	16°654	10°694
45290*	51	6°201	19°434	45362	24	18°754	24°681	45434	62	25°414	1°682	45506	9	8°874	6°418	45578	22	17°076	10°016
45291	17	9°623	19°008	45363	17	19°030	24°680	45435	14	0°796	2°890	45507	37	9°250	6°514	45579	29	17°380	10°775
45292	8	10°336	19°712	45364	34	19°160	24°910	45436	21	1°397	2°985	45508	8	12°458	6°225	45580	18	17°456	10°710
45293	26	11°698	19°348	45365	14	19°551	24°250	45437	13	3°196	2°805	45509	8	12°716	6°499	45581*	50	20°643	10°941
45294	10	12°212	19°932	45366	8	20°853	24°119	45438	8	4°841	2°821	45510	40	13°021	6°873	45582	9	21°173	10°354
45295	15	14°469	19°218	45367	9	20°322	24°298	45439	10	4°900	2°476	45511	35	13°194	6°146	45583	8	23°027	10°306
45296	21	15°065	19°486	45368	24	20°600	24°367	45440	24	5°870	2°313	45512	31	15°738	6°467	45584	29	23°594	10°530
45297	39	17°130	19°517	45369	30	21°632	24°366	45441	8	9°956	2°331	45513	30	16°285	6°584	45585	9	24°036	10°880
45298	22	17°198	19°611	45370	14	25°454	24°298	45442	21	10°210	2°905	45514	15	17°945	6°578	45586	20	24°328	10°568
45299	24	17°524	19°873	45371	28	2°107	25°830	45443	29	10°366	2°344	45515*	70	20°298	6°450	45587	8	1°912	11°285
45300	12	18°013	19°358	45372	31	2°938	25°073	45444	11	12°536	2°876	45516*	61	20°900	6°326	45588	11	4°717	11°746
45301	31	23°102	19°540	45373	30	9°816	25°844	45445	27	12°672	2°480	45517	8	21°241	6°792	45589	18	7°818	11°460
45302	27	1°572	20°143	45374	21	13°597	25°280	45446	43	17°440	2°781	45518	27	24°138	6°618	45590*	42	7°834	11°445
45303	15	1°976	20°818	45375	24	14°237	25°413	45447	21	18°508	2°625	45519	28	0°946	7°364	45591	27	8°708	11°852
45304	25	2°126	20°268	45376	10	23°620	25°921	45448*	86	19°724	2°261	45520	11	5°659	7°659	45592	9	10°216	11°306
45305	25	11°732	20°852					45449	8	20°452	2°465	45521	8	6°396	7°191	45593	36	10°364	11°730
45306*	78	12°074	20°780					45450	39	22°192	2°307	45522	8	7°757	7°451	45594	26	10°596	11°712
45307	14	14°855	20°721					45451	8	23°256	2°955	45523	13	7°825	7°770	45595	20	11°765	11°136
45308	11	15°857	20°298					45452	35	25°344	2°316	45524	38	9°592	7°634	45596*	62	13°394	11°206
45309	12	16°717	20°401					45453	8	0°142	3°033	45525	10	11°638	7°375	45597	14	15°804	11°558
45310	8	19°522	20°852					45454	13	0°241	3°792	45526	30	11°720	7°526	45598	8	16°015	11°588
45311	29	19°582	20°879					45455	12	7°000	3°663	45527	15	13°368	7°322	45599	10	21°696	11°104
45312	16	4°280	21°740					45456	8	7°486	3°579	45528	28	15°240	7°573	45600	26	21°944	11°104
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46025	8	24-774	4-258	46097	8	1-791	10-921	46169*	57	7-038	13-264	46241	23	9-765	17-655	46313	12	17-162	21-720
46026	14	25-208	4-234	46098	12	2-076	10-604	46170	9	7-557	13-854	46242	9	11-888	17-656	46314	38	21-368	21-734
46027	33	6-357	5-458	46099	15	5-932	10-562	46171	8	10-951	13-246	46243	8	14-854	17-348	46315	8	0-563	22-202
46028	15	7-312	5-597	46100	13	8-698	10-864	46172	12	14-648	13-856	46244	9	16-586	17-912	46316	24	0-756	22-176
46029	15	7-376	5-619	46101	8	8-831	10-419	46173	12	15-456	13-972	46245	10	18-719	17-868	46317*	53	1-432	22-609
46030	13	7-524	5-238	46102	14	9-446	10-522	46174	10	19-200	13-697	46246	13	19-922	17-818	46318	19	2-238	22-957
46031	10	7-588	5-300	46103	13	9-784	10-309	46175	9	20-810	13-800	46247	22	20-650	17-500	46319	20	3-480	22-997
46032	22	16-969	5-600	46104*	71	9-857	10-138	46176	11	20-909	13-442	46248	8	21-068	17-306	46320	8	7-478	22-911
46033	12	20-006	5-072	46105*	9	10-067	10-418	46177	13	22-198	13-442	46249	8	21-133	17-922	46321	9	16-011	22-660
46034	22	21-457	5-300	46106*	56	10-616	10-902	46178	17	23-026	13-070	46250	8	22-379	17-203	46322*	48	17-513	22-318
46035	8	24-259	5-129	46107	9	17-763	10-890	46179	15	23-230	13-408	46251	8	23-294	17-310	46323	22	17-806	22-298
46036	10	1-818	6-658	46108	9	18-702	10-868	46180	9	25-453	13-818	46252	10	23-918	17-466	46324	8	18-292	22-382
46037	8	7-524	6-537	46109	15	19-678	10-469	46181	8	1-150	14-282	46253	8	25-508	17-422	46325*	34	18-936	22-97

R.A. 17 <sup>h</sup> 20 <sup>m</sup>			Plate 721; 1916 May 7.			Provisional Constants.			A B C			D E F			Mag. = 16.9 - 1.05 $\sqrt{d}$				
No.	d	x	y	No.	d	x	y	No.	d	x	y	No.	d	x	y	No.	d	x	y
46335	9	2-916	23-838	46456	13	0-495	2-591	46528*	53	14-864	4-264	46600	15	15-340	7-328				
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46344	8	12-356	24-548	46465	21	9-234	2-130	46537	8	1-894	5-516	46609	8	23-394	7-806				
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46371	8	5-589	25-710	46492	8	16-170	3-386	46564	26	10-396	6-332	46636	10	10-614	8-440				
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46373	23	6-144	25-421	46494	25	16-613	3-862	46566	8	12-467	6-592	46638	34	12-636	8-904				
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46375	13	7-502	25-362	46496	11	16-917	3-356	46568	11	14-776	6-106	46640	8	13-983	8-600				
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46386	8	17-277	25-673	46507	11	25-410	3-240	46579	35	21-710	6-654	46651	22	25-270	8-308				
46387	10	18-198	25-698	46508	14	1-407	4-214	46580	15	21-940	6-344	46652	25	25-886	8-398				
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				46514*	49	6-968	4-436	46586	33	25-416	6-908	46658	8	8-996	9-238				
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46681	20	1-478	10-812	46753	12	15-273	12-242	46825	20	8-991	15-532	46897	15	3-187	19-063	46969	30	11-512	24-321
46682	12	1-816	10-754	46754	10	15-506	12-940	46826	15	9-272	15-864	46898*	46	3-196	19-090	46970	32	11-988	24-012
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R.A. 17<sup>h</sup> 52<sup>m</sup>

Plate 747; 1916 Aug. 26.

Provisional Constants.

A B C

D E F

-02568 -01203 +0921

-01236 -02575 +0392

Mag. = 16.4 - 1.05 √ d

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51033*	54	2-744	8-865	51105	12	19-906	10-972	51177	36	24-572	11-840	51249	18	3-180	13-730	51321	16	7-054	14-722
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51035	21	3-236	8-894	51107	21	20-915	10-142	51179	13	25-890	11-474	51251	18	3-630	13-500	51323	16	8-622	14-796
51036	42	4-100	9-876	51108	47	21-068	10-914	51180	11	0-036	12-145	51252	12	3-966	13-982	51324	16	8-986	14-816
51037																			

51335	18	13°05'	14°86'	51407	36	19°630	15°702	51479	19	21°684	16°706	51551	17	22°296	17°756	51623	14	19°154	18°266
51336	25	13°01'	14°880	51408	13	20°458	15°470	51480	15	21°726	16°076	51552	13	22°398	17°849	51624	12	19°236	18°086
51337	20	13°86'	14°906	51409	20	20°588	15°292	51481	36	22°385	16°367	51553	25	22°922	17°096	51625	27	19°651	18°966
51338*	76	14°00'	14°966	51410	11	20°630	15°286	51482	20	22°542	16°411	51554	15	23°082	17°942	51626	60	19°698	18°176
51339	30	15°032	14°528	51411	28	20°801	15°948	51483	12	22°595	16°080	51555	20	23°148	17°827	51627	40	19°747	18°926
51340	20	15°212	14°539	51412	20	21°166	15°773	51484	39	22°700	16°755	51556	21	23°607	17°446	51628	14	19°750	18°418
51341	24	15°229	14°050	51413	18	21°822	15°646	51485	18	22°778	16°065	51557	40	23°822	17°584	51629	13	20°042	18°994
51342	18	15°974	14°226	51414	15	22°457	15°277	51486	14	22°790	16°734	51558	29	23°890	17°352	51630	15	20°088	18°400
51343	16	16°186	14°700	51415	19	22°506	15°326	51487	18	22°976	16°328	51559	22	24°101	17°853	51631	17	20°162	18°774
51344	37	16°886	14°399	51416	22	22°564	15°702	51488	21	23°094	16°358	51560	42	24°325	17°420	51632	13	20°266	18°084
51345	11	17°008	14°385	51417	14	22°652	15°862	51489	20	23°168	16°356	51561	22	24°488	17°508	51633	19	20°254	18°785
51346	21	17°870	14°134	51418	18	22°920	15°265	51490	16	23°454	16°674	51562	17	24°524	17°676	51634	18	20°802	18°962
51347	27	18°976	14°504	51419	22	23°109	15°671	51491	14	23°584	16°877	51563	15	24°633	17°958	51635	23	21°250	18°486
51348	38	19°708	14°863	51420	18	23°274	15°487	51492	17	23°586	16°831	51564	21	25°086	17°098	51636	22	21°863	18°060
51349	11	21°880	14°115	51421	18	23°370	15°537	51493	20	24°171	16°740	51565	20	25°195	17°515	51637	18	21°942	18°158
51350	27	22°686	14°067	51422	17	23°684	15°026	51494	20	24°171	16°740	51566	36	25°590	17°222	51638	20	21°974	18°027
51351	20	22°802	14°204	51423	18	23°814	15°390	51495	12	24°358	16°206	51567	17	25°936	17°604	51639	40	22°108	18°086
51352	8	22°884	14°644	51424	16	23°948	15°072	51496	14	24°366	16°844	51568	36	26°054	18°438	51640	24	22°345	18°786
51353	15	23°144	14°266	51425	19	24°202	15°578	51497	16	24°728	16°276	51569	16	26°120	18°950	51641	40	22°364	18°566
51354	27	23°103	14°126	51426	24	24°484	15°906	51498	18	24°880	16°143	51570	12	26°697	18°108	51642	15	22°620	18°746
51355	37	23°708	14°655	51427	41	24°546	15°166	51499	23	25°219	16°687	51571	16	26°712	18°454	51643	24	22°642	18°266
51356	11	23°731	14°915	51428	18	24°592	15°449	51500	30	25°240	16°824	51572	14	26°900	18°612	51644	21	22°723	18°434
51357	38	24°136	14°716	51429	24	24°914	15°366	51501	15	25°283	16°958	51573	23	27°046	18°286	51645	36	22°838	18°713
51358	15	24°184	14°487	51430	16	24°928	15°694	51502	20	25°292	16°910	51574	17	27°136	18°513	51646	40	22°864	18°162
51359	20	24°361	14°688	51431	14	25°235	15°604	51503	14	25°442	16°133	51575	20	27°430	18°195	51647	100	23°058	18°476
51360	39	24°647	14°502	51432	24	25°509	15°254	51504	38	25°730	16°880	51576	17	27°917	18°240	51648	14	23°213	18°524
51361	24	24°728	14°276	51433	10	25°531	15°102	51505	20	25°857	16°244	51577	16	28°314	18°050	51649	21	23°376	18°876
51362	18	24°856	14°362	51434	21	25°578	15°144	51506	28	26°094	17°357	51578	14	28°403	17°624	51650	15	23°604	18°212
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51366	33	25°236	14°825	51438	15	26°162	16°852	51510	12	27°371	17°804	51582	56	28°436	18°657	51654	16	24°509	18°337
51367	12	25°272	14°486	51439	16	26°926	16°852	51511	24	27°351	17°906	51583	20	28°606	18°278	51655	26	24°594	18°626
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51373	16	0°394	15°024	51445	23	7°323	16°218	51517	37	9°804	17°667	51589	23	8°651	18°576	51661	14	25°404	18°373
51374	20	1°058	15°692	51446	28	8°344	16°703	51518	16	10°094	17°955	51590	10	8°864	18°136	51662	48	25°557	18°444
51375*	58	3°151	15°270	51447	36	8°710	16°650	51519	38	10°110	17°644	51591	16	9°024	18°036	51663	14	26°086	19°483
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51377	14	3°614	15°160	51449	21	9°426	16°985	51521	31	10°226	17°068	51593	18	10°476	18°326	51665	21	27°014	19°842
51378	28	3°708	15°178	51450	21	9°467	16°950	51522	26	10°905	17°522	51594	28	10°743	18°287	51666	19	27°166	19°244
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51381	22	8°308	15°154	51453*	62	10°796	16°644	51525	17	11°629	17°538	51597	15	11°530	18°257	51669	15	27°457	19°468
51382	21	8°691	15°054	51454	13	10°818	16°416	51526	24	11°786	17°647	51598	18	12°150	18°795	51670	17	27°632	19°555
51383	28	9°088	15°404	51455	34	11°250	16°736	51527	15	12°301	17°608	51599	39	12°236	18°070	51671	14	27°778	19°248
51384	17	9°381	15°838	51456	19	11°468	16°353	51528*	78	12°438	17°538	51600	17	12°330	18°866	51672*	74	27°810	19°388
51385	20	9°758	15°119	51457	36	11°479	16°396	51529	18	13°490	17°016	51601	37	12°411	18°432	51673	16	27°866	19°424
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51391	17	12°416	15°057	51463	13	16°107	16°026	51535	12	15°305	17°744	51607	15	15°072	18°238	51679	19	27°853	19°676
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51393	19	13°302	15°525	51465	18	18°133	16°940	51537	17	15°916	17°286	51609	19	15°259	18°340	51681	17	28°204	19°944
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51396	22	15°056	15°558	51468	21	18°63													

51695*	76	16-206	19-436	51767	30	10-608	20-716	51839	12	3-864	21-804	51911	40	23-326	21-338	51983	22	17-966	22-723
51696*	38	16-536	19-838	51768	29	10-829	20-576	51840*	44	3-926	21-176	51912	26	24-328	21-936	51984	12	18-046	22-407
51697	34	16-772	19-513	51769	21	11-330	20-197	51841	22	4-183	21-352	51913*	62	24-412	21-286	51985	15	18-062	22-244
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54978	9	25-175	9-920	55050	9	4-512	12-706	55122	14	9-680	14-920	55194	9	15-437	16-470	55266	21	5-402	19-767
54979	15	0-094	10-256	55051	9	4-998	12-234	55123	15	9-854	14-640	55195	10	17-922	16-129				

55277	9	11-580	19-138	55340	8	13-081	21-512	55421	8	19-972	23-144	55556	12	2-522	3-744
55278	37	11-707	19-594	55350	8	14-410	21-130	55422	8	22-646	23-246	55557	9	4-355	3-654
55279	14	11-780	19-384	55351	8	15-410	21-140	55423	13	25-026	23-126	55558	28	6-200	3-151
55280	8	12-079	19-416	55352	20	16-366	21-275	55424	38	0-227	24-598	55559	23	7-279	3-252
55281	8	13-459	19-217	55353	38	17-577	21-154	55425	8	4-294	24-117	55560	9	8-592	3-580
55282	10	14-044	19-338	55354	9	18-063	21-083	55426	8	5-882	24-448	55561	14	8-918	3-272
55283	9	14-625	19-086	55355	14	18-446	21-446	55427	25	6-879	24-780	55562	9	9-656	3-236
55284	21	14-780	19-356	55356	34	18-942	21-224	55428	9	7-056	24-094	55563	19	12-272	3-797
55285	8	14-784	19-001	55357	18	19-528	21-568	55429	12	7-171	24-272	55564	8	17-157	3-076
55286	8	16-124	19-470	55358	11	19-719	21-368	55430	36	9-846	24-497	55565	12	18-020	3-167
55287	10	16-882	19-661	55359	8	20-764	21-264	55431	8	9-954	24-059	55566	15	19-402	3-394
55288	8	18-713	19-426	55360	11	22-707	21-840	55432	39	10-486	24-046	55567	43	21-574	3-238
55289	8	19-300	19-710	55361	9	22-780	21-647	55433	18	11-265	24-058	55568	31	23-704	3-713
55290	12	20-034	19-824	55362	10	23-053	21-510	55434	14	11-830	24-851	55569	36	23-937	3-027
55291	8	21-315	19-942	55363	9	23-080	21-672	55435	13	12-372	24-384	55570	10	2-654	4-695
55292	10	22-256	19-170	55364	38	23-433	21-772	55436	8	12-422	24-365	55571	8	2-863	4-337
55293	16	24-457	19-474	55365	9	25-488	21-620	55437	9	13-888	24-000	55572	9	3-658	4-550
55294	10	24-590	19-850	55366	12	0-996	22-556	55438	14	14-620	24-358	55573	8	4-739	4-476
55295	10	25-286	19-005	55367	34	1-140	22-230	55439	11	14-662	24-703	55574	32	4-942	4-944
55296	8	25-480	19-586	55368	8	1-926	22-149	55440	28	15-001	24-273	55575	8	8-546	4-045
55297	11	0-068	20-057	55369	11	2-064	22-927	55441	10	15-260	24-526	55576	8	10-848	4-211
55298	8	0-390	20-046	55370	3	3-100	22-180	55442	10	15-364	24-114	55577	17	11-994	4-542
55299	8	1-332	20-776	55371	26	4-058	22-934	55443	8	15-412	24-489	55578	10	13-957	4-206
55300	8	2-276	20-273	55372	10	7-010	22-838	55444	15	15-509	24-694	55579	9	17-121	4-686
55301	11	2-282	20-910	55373	8	7-656	22-450	55445	21	15-815	24-586	55580	19	21-099	4-041
55302	8	2-675	20-180	55374	9	8-573	22-618	55446	8	16-898	24-634	55581	12	21-488	4-547
55303	23	3-578	20-060	55375	16	9-234	22-013	55447	8	16-915	24-624	55582	33	25-767	4-590
55304	11	4-680	20-314	55376	79	9-435	22-502	55448	11	18-040	24-951	55583	12	1-939	5-131
55305	11	4-988	20-672	55377	12	9-853	22-664	55449	8	18-888	24-944	55584	11	3-652	5-118
55306	8	6-082	20-834	55378	8	10-676	22-774	55450	13	19-340	24-070	55585	12	9-098	5-561
55307	10	8-045	20-440	55379	15	11-163	22-420	55451	10	19-692	24-620	55586	23	11-758	5-972
55308	24	8-324	20-368	55380	9	11-442	22-380	55452	10	21-894	24-357	55587	25	15-588	5-431
55309	13	9-043	20-840	55381	12	11-456	22-146	55453	20	22-120	24-256	55588	15	15-924	5-503
55310	12	9-702	20-798	55382	8	12-829	22-087	55454	10	22-347	24-028	55589	15	18-032	5-830
55311	12	10-383	20-014	55383	14	13-573	22-916	55455	44	23-600	24-080	55590	8	18-236	5-672
55312	12	10-918	20-322	55384	11	13-883	22-044	55456	8	25-722	24-188	55591	22	18-296	5-552
55313	9	11-095	20-350	55385	10	14-705	22-510	55457	8	1-165	25-150	55592	8	20-316	5-839
55314	8	11-300	20-374	55386	8	15-112	22-466	55458	23	1-246	25-635	55593	25	22-873	5-520
55315	8	11-984	20-376	55387	54	15-420	22-449	55459	17	1-453	25-766	55594	18	0-492	6-110
55316	10	12-318	20-616	55388	24	16-010	22-884	55460	16	1-644	25-531	55595	18	6-274	6-501
55317	9	12-358	20-046	55389	12	16-200	22-974	55461	26	2-772	25-062	55596	42	6-534	6-596
55318	10	12-404	20-675	55390	8	16-486	22-215	55462	8	2-838	25-312	55597	14	10-238	6-099
55319	38	13-560	20-520	55391	15	18-088	22-593	55463	25	3-060	25-194	55598	9	11-148	6-770
55320	8	15-724	20-600	55392	17	20-318	22-264	55464	10	3-400	25-868	55599	14	11-182	6-707
55321	8	15-904	20-426	55393	8	21-687	22-277	55465	8	5-124	25-264	55600	10	12-969	6-389
55322	11	18-351	20-155	55394	8	22-103	22-402	55466	10	6-896	25-900	55601	10	13-649	6-619
55323	11	18-452	20-051	55395	17	23-137	22-198	55467	25	7-726	25-226	55602	12	13-818	6-730
55324	21	22-617	20-760	55396	11	23-144	22-121	55468	11	7-928	25-617	55603	23	13-956	6-626
55325	8	23-654	20-750	55397	21	1-928	23-478	55469	13	8-236	25-933	55604	16	14-442	6-160
55326	9	23-678	20-914	55398	8	2-548	23-710	55470	40	8-478	25-324	55605	33	15-580	6-215
55327	21	25-220	20-807	55399	8	3-136	23-188	55471	8	10-920	25-000	55606	10	17-745	6-033
55328	10	0-038	21-787	55400	12	5-454	23-306	55472	22	14-037	25-914	55607	11	23-563	6-814
55329	41	0-314	21-314	55401	10	6-375	23-242	55473	8	13-262	25-996	55608	12	23-866	6-844
55330	10	0-470	21-514	55402	11	6-505	23-286	55474	11	13-800	25-735	55609	10	0-020	7-830
55331	13	3-706	21-117	55403	9	8-051	23-472	55475	10	14-196	25-526	55610	8	1-015	7-596
55332	8	3-746	21-473	55404	34	8-324	23-851	55476	8	14-970	25-354	55611	11	7-958	7-528
55333	8	3-746	21-242	55405	26	8-500	23-306	55477	24	15-032	25-906	55612	28	8-092	7-944
55334	10	7-373	21-060	55406	9	9-790	23-062	55478	8	16-307	25-611	55613	12	10-206	7-678
55335	9	7-750	21-290	55407	21	10-316	23-428	55479	29	18-871	25-756	55614	13	15-767	7-298
55336	23	7-818	21-550	55408	23	11-116	23-124	55480	10	19-168	25-053	55615	30	19-645	7-396
55337	8	8-075	21-454	55409	32	11-926	23-116	55481	19	19-559	25-664	55616	11	21-830	7-300
55338	8	8-756	21-496	55410	25	12-000	23-463	55482	8	19-709	25-970	55617	9	21-842	7-794
55339	14	9-628	21-130	55411	8	13-366	23-210	55483	8	20-402	25-308	55618	10	22-220	7-825
55340	12	9-935	21-020	55412	8	13-856	23-156	55484	15	21-074	25-248	55619	9	23-612	7-359
55341	14	10-239	21-086	55413	10	14-014	23-991					55620	10	25-080	7-560
55342	8	10-395	21-894	55414	15	14-366	23-546					55621	17	25-834	7-058
55343	11	10-668	21-262	55415	8	15-412	23-481					55622	9	0-147	8-668
55344	13	11-060	21-625	55416	8	15-484	23-490					55623	9	1-590	8-200
55345	17	11-918	21-285	55417	9	15-492	23-486					55624	12	6-794	8-079
55346	9	12-242	21-660	55418	15	16-715	23-214					55625	73	7-130	8-494
55347	8	12-371	21-550	55419	8	17-112	23-782					55626	8	8-164	8-018
55348	8	13-043	21-570	55420	10	18-982	23-693					55627	10	9-280	8-138

R.A. 18<sup>h</sup> 40<sup>m</sup>

Plate 748; 1916 Aug. 26.

Provisional Constants.

$$\begin{matrix} A & B & C \\ -02557 & +00645 & +2752 \end{matrix}$$

$$\begin{matrix} D & E & F \\ -00622 & -02563 & -3867 \end{matrix}$$
Mag.=16.8-1.05 $\sqrt{d}$ 

No.	d	$\alpha$	$\gamma$
55501	40	4-399	0-732
55502	31	5-068	0-702
55503	26	7-136	0-780
55504	21	7-960	0-731
55505	22	8-734	0-344
55506	9	8-938	0-586
55507	17	8-953	0-933
55508	8	11-150	0-478
55509	9	11-233	0-736
55510	8	12-620	0-688
55511	11	18-026	0-776
55512*	41	19-184	0-408
55513	9	20-156	0-624
55514	31	21-168	0-880
55515	14	21-462	0-840
55516*	41	22-254	0-480
55517	8	23-512	0-680
55518*	62	23-604	0-668
55519	8	24-136	0-870
55520*	41	24-204	0-780
55521	16	1-930	1-134
55522*	68	2-814	1-780
55523	17	2-968	1-870
55524	10	3-063	1-330
55525	8	4-814	1-134
55526	10	5-548	1-730
55527	24	6-362	1-730
55528*	78	7-547	1-030
55529	19	8-900	1-330
55530	23	12-126	1-330
55531	14	12-164	1-030
55532	25	12-380	1-030
55533	10	18-062	1-570
55534	14	19-066	1-730
55535	23	20-764	1-730
55536	11	20-764	1-730
55537	42	0-479	2-530
55538	11	1-266	2-420
55539	11	7-702	2-240
55540	8	8-864	2-970
55541	13	14-035	2-730
55542	21	15-397	2-530
55543	11	15-447	2-730
55544	8	16-067	2-030
55545	9	17-052	2-230
55546	8	18-666	2-330
55547	11	18-778	2-130
55548	12	21-020	2-130
55549	9	21-064	2-140
55550*	52	21-182	2-130
55551	26	22-974	2-930
55552	30	23-338	2-330
55553	19	23-684	2-330
55554	9	25-131	2-820
55555	13	25-613	2-820



3-744	55628	19	11-652	8-076	55700	12	18-715	12-227	55772	10	20-810	15-970	55844	9	14-268	18-028	55916	8	25-338	20-397
3-654	55629	100	12-440	8-100	55701	10	19-102	12-404	55773	8	20-845	15-007	55845	27	14-776	18-902	55917	9	0-530	21-954
3-151	55630	10	15-136	8-172	55702	16	19-108	12-538	55774	43	21-735	15-632	55846	28	19-166	18-120	55918	9	0-904	21-784
3-252	55631	11	18-075	8-784	55703	65	24-820	12-789	55775	21	23-074	15-138	55847	13	19-200	18-986	55919	35	1-255	21-882
3-580	55632	10	20-539	8-870	55704	27	25-330	12-968	55776	10	23-254	15-234	55848	71	19-241	18-420	55920	8	3-316	21-717
3-272	55633	8	21-413	8-027	55705	13	25-807	12-381	55777	19	23-953	15-289	55849	13	19-758	18-530	55921	8	3-862	21-088
3-236	55634	9	22-029	8-338	55706	44	1-257	13-274	55778	9	24-177	15-218	55850	8	19-862	18-563	55922	15	4-016	21-800
3-797	55635	12	22-426	8-236	55707	34	1-261	13-650	55779	8	24-318	15-004	55851	34	20-400	18-099	55923	15	4-082	21-417
3-076	55636	8	23-268	8-076	55708	14	2-049	13-555	55780	25	25-331	15-810	55852	8	20-422	18-286	55924	11	5-170	21-445
3-167	55637	15	23-314	8-890	55709	10	4-922	13-438	55781	16	25-416	15-970	55853	19	20-882	18-192	55925	12	12-863	21-435
3-394	55638	9	23-339	8-623	55710	15	5-392	13-902	55782	36	25-518	15-993	55854	10	20-924	18-039	55926	10	15-668	21-110
3-238	55639	9	24-616	8-573	55711	16	6-362	13-619	55783	13	4-327	16-594	55855	9	21-693	18-382	55927	28	16-732	21-089
3-713	55640	18	4-933	9-820	55712	12	7-043	13-002	55784	14	5-939	16-863	55856	60	22-981	18-332	55928	19	18-272	21-872
3-027	55641	17	7-272	9-814	55713	30	7-468	13-206	55785	13	7-732	16-046	55857	12	24-240	18-250	55929	54	20-993	21-668
4-065	55642	9	7-346	9-944	55714	10	8-428	13-450	55786	15	11-134	16-478	55858	52	24-669	18-222	55930	19	21-034	21-580
4-337	55643	17	11-203	9-457	55715	12	9-648	13-666	55787	8	13-428	16-036	55859	10	24-676	18-612	55931	40	21-648	21-401
4-550	55644	17	13-350	9-140	55716	14	11-507	13-308	55788	10	14-644	16-212	55860	30	24-698	18-596	55932	29	22-716	21-835
4-476	55645	9	17-383	9-152	55717	21	14-288	13-941	55789	10	14-935	16-264	55861	29	25-216	18-306	55933	8	24-468	21-622
4-944	55646	17	19-992	9-927	55718	31	15-780	13-338	55790	13	16-664	16-890	55862	45	25-346	18-410	55934	9	24-810	21-707
4-045	55647	9	21-433	9-256	55719	12	17-466	13-618	55791	11	17-188	16-527	55863	29	25-352	18-553	55935	14	0-966	22-310
4-211	55648	28	21-558	9-336	55720	8	18-378	13-454	55792	8	17-760	16-077	55864	29	25-800	18-241	55936	9	4-613	22-037
4-542	55649	10	21-616	9-776	55721	17	19-113	13-699	55793	16	18-009	16-664	55865	34	25-608	18-581	55937	15	5-154	22-892
4-206	55650	12	21-627	9-596	55722	9	21-943	13-608	55794	21	18-486	16-678	55866	33	25-914	18-206	55938	8	6-791	22-032
4-686	55651	23	23-018	9-632	55723	9	23-244	13-610	55795	70	18-957	16-140	55867	15	1-742	19-077	55939	46	8-129	22-350
4-041	55652	11	24-136	9-467	55724	11	23-302	13-756	55796	30	19-030	16-873	55868	13	2-267	19-578	55940	13	14-222	22-064
4-547	55653	9	24-806	9-462	55725	9	0-078	14-842	55797	29	19-102	16-864	55869	12	4-630	19-070	55941	10	14-828	22-072
4-590	55654	11	0-613	10-508	55726	13	3-069	14-167	55798	31	19-521	16-126	55870	11	4-636	19-109	55942	8	15-202	22-007
5-131	55655	11	1-450	10-614	55727	15	3-903	14-444	55799	14	19-926	16-046	55871	9	8-027	19-944	55943	11	16-448	22-469
5-118	55656	31	4-878	10-452	55728	12	5-111	14-314	55800	16	19-993	16-832	55872	8	8-200	19-828	55944	44	17-759	22-276
5-561	55657	8	10-363	10-104	55729	33	5-114	14-164	55801	8	20-011	16-561	55873	10	10-742	19-438	55945	44	20-958	22-020
5-972	55658	30	13-177	10-646	55730	13	5-307	14-856	55802	10	20-476	16-112	55874	12	11-974	19-690	55946	38	21-664	22-890
5-431	55659	19	14-308	10-981	55731	10	5-687	14-526	55803	10	20-937	16-996	55875	20	13-822	19-241	55947	56	22-117	22-256
5-593	55660	18	14-926	10-814	55732	17	9-388	14-232	55804	14	21-734	16-800	55876	9	14-655	19-924	55948	61	22-816	22-503
5-890	55661	8	14-938	10-502	55733	63	10-778	14-510	55805	14	22-332	16-160	55877	10	15-732	19-190	55949	8	23-244	22-425
5-672	55662	13	19-876	10-967	55734	16	12-157	14-756	55806	11	22-720	16-757	55878	10	15-828	19-360	55950	9	24-300	22-698
5-552	55663	13	20-126	10-490	55735	32	12-240	14-213	55807	37	22-773	16-131	55879	14	16-942	19-877	55951	13	24-790	22-992
5-899	55664	9	22-384	10-576	55736	10	12-504	14-034	55808	61	22-926	16-798	55880	18	17-093	19-197	55952	15	24-886	22-062
5-520	55665	13	22-552	10-870	55737	11	16-576	14-176	55809	10	23-063	16-106	55881	8	18-283	19-375	55953	11	25-720	22-360
6-110	55666	27	23-191	10-541	55738	35	18-138	14-815	55810	8	23-627	16-676	55882	13	18-620	19-088	55954	12	4-062	23-478
6-501	55667	8	23-307	10-893	55739	10	18-484	14-262	55811	8	24-041	16-180	55883	35	23-276	19-026	55955	17	5-298	23-263
6-596	55668	9	24-012	10-184	55740	40	18-802	14-672	55812	18	24-068	16-888	55884	38	23-852	19-191	55956	17	5-650	23-418
6-099	55669	11	0-128	11-318	55741	24	18-921	14-389	55813	17	24-298	16-362	55885	12	24-314	19-802	55957	11	7-045	23-775
6-770	55670	24	1-191	11-045	55742	9	19-010	14-481	55814	8	25-256	16-110	55886	24	25-168	19-867	55958	13	8-490	23-012
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13:683	56391	8	3-163	18-082	56463	15	13-933	20-272	56535	10	15-964	23-593					56703	13	5-884	3-824
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13:689	56397	8	4-268	18-809	56469	29	24-556	20-226	56541	12	21-434	23-487					56709	20	11-954	3-291
13:690	56398	24	4-372	18-092	56470	23	25-664	20-600	56542	62	2-223	24-001					56710	10	12-394	3-358
13:691	56399	26	4-405	18-430	56471	41	0-476	21-296	56543	16	2-319	24-812					56711	46	13-387	3-374
13:692	56400	28	4-706	18-055	56472	29	1-548	21-716	56544	27	2-591	24-165					56712	12	14-310	3-291
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13:694	56402	11	6-732	18-710	56474	13	3-724	21-923	56546	8	3-042	24-955					56714	18	17-276	3-602
13:695	56403	14	7-656	18-988	56475	18	5-230	21-051	56547	14	3-950	24-477					56715	10	19-166	3-628
13:696	56404	43	8-806	18-597	56476	21	7-516	21-558	56548	58	4-126	24-726					56716	19	23-238	3-212
13:697	56405	14	9-615	18-354	56477	8	7-786	21-650	56549	16	4-481	24-684					56717	11	24-280	3-985
13:698	56406	9	10-214	18-150	56478	12	7-910	21-710	56550	9	4-819	24-444					56718	8	25-365	3-187
13:699	56407	12	10-525	18-518	56479	8	9-954	21-854	56551	17	6-335	24-016					56719	18	4-260	4-066
13:700	56408	9	12-448	18-772	56480	33	12-612	21-472	56552	22	6-630	24-555					56720	8	8-626	4-037
13:701	56409	11	13-435	18-556	56481	28	13-356	21-728	56553	36	7-290</									

56732	14	25-661	4-924	56804	10	5-893	9-316	56876	14	23-017	13-294	56948	9	25-100	17-889	57020	10	8-246	22-858
56733	11	25-940	4-600	56805	8	6-120	9-722	56877	18	23-584	13-276	56949	19	4-276	18-290	57021	20	9-816	22-950
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56735	17	3-010	5-189	56807	38	8-449	9-392	56879	18	24-890	13-416	56951	8	4-090	18-415	57023	9	10-324	22-784
56736	22	3-623	5-806	56808	9	13-310	9-085	56880	33	0-467	14-010	56952	10	5-210	18-791	57024	10	11-982	22-300
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56738	8	6-886	5-953	56810	10	14-630	9-230	56882	8	9-610	14-404	56954	9	9-828	18-762	57026	35	17-390	22-154
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56740	9	7-280	5-096	56812	43	16-750	9-980	56884	8	14-688	14-645	56956	10	13-160	18-419	57028	8	18-571	22-708
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56746	9	15-797	5-280	56818	8	21-620	9-236	56890	13	21-276	14-365	56962	14	24-376	18-382	57034	24	4-063	23-278
56747	20	16-375	5-890	56819	24	22-290	9-584	56891	13	21-706	14-853	56963	10	24-503	18-642	57035	30	4-160	23-718
56748	8	17-123	5-208	56820	16	24-542	9-775	56892	34	23-720	14-404	56964	22	24-721	18-512	57036	9	8-414	23-724
56749	10	17-520	5-226	56821	10	24-706	9-262	56893	11	24-102	14-602	56965	8	25-118	18-575	57037	11	8-540	23-085
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56751	19	18-445	5-582	56823	10	25-701	9-251	56895	10	0-077	15-096	56967	8	0-362	19-753	57039	20	9-600	23-444
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56754	23	22-267	5-444	56826	8	10-272	10-579	56898	13	6-744	15-722	56970	12	2-380	19-535	57042	8	14-146	23-800
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56761	13	12-156	6-718	56833	22	24-600	10-650	56905	15	14-640	15-040	56977	20	15-366	19-820	57049	10	20-744	23-638
56762	60	12-964	6-570	56834	8	25-858	10-394	56906	35	14-670	15-476	56978	15	15-806	19-630	57050	30	21-161	23-085
56763	9	13-064	6-700	56835	8	2-594	11-768	56907	26	23-290	15-517	56979	11	16-262	19-002	57051	28	21-980	23-180
56764	11	13-694	6-230	56836	28	2-718	11-019	56908	19	23-504	15-612	56980	8	19-611	19-643	57052	10	22-571	23-400
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56766	24	14-658	6-910	56838	9	7-865	11-618	56910	8	25-000	15-570	56982	20	1-274	20-916	57054	8	24-450	23-208
56767	20	14-852	6-790	56839	11	10-181	11-088	56911	12	0-062	16-290	56983	9	2-876	20-232	57055	10	25-240	23-752
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56770	20	17-166	6-045	56842	19	13-355	11-788	56914	8	4-400	16-826	56986	8	5-000	20-680	57058	12	3-138	24-338
56771	44	17-483	6-125	56843	12	13-648	11-214	56915	20	7-600	16-714	56987	8	5-764	20-282	57059	13	6-914	24-127
56772	14	20-042	6-904	56844	10	14-836	11-726	56916	8	7-934	16-460	56988	84	6-268	20-762	57060	8	7-213	24-075
56773	60	21-200	6-412	56845	64	10-380	11-411	56917	25	7-982	16-400	56989	17	10-775	20-268	57061	9	7-466	24-762
56774	10	21-650	6-420	56846	62	21-131	11-910	56918	10	10-431	16-879	56990	12	11-460	20-825	57062	22	8-083	24-664
56775	17	22-537	6-913	56847	8	25-410	11-752	56919	22	12-728	16-520	56991	11	13-370	20-710	57063	10	9-926	24-220
56776	14	23-536	6-044	56848	21	1-210	12-533	56920	10	13-050	16-720	56992	44	13-812	20-566	57064	8	10-276	24-730
56777	8	7-804	7-063	56849	11	1-506	12-015	56921	8	13-754	16-428	56993	9	13-872	20-860	57065	17	10-455	24-148
56778	9	12-052	7-376	56850	10	5-976	12-144	56922	25	16-230	16-504	56994	9	18-518	20-576	57066	13	11-354	24-640
56779	8	17-792	7-528	56851	78	6-342	12-738	56923	8	23-258	16-570	56995	12	18-793	20-914	57067	8	12-370	24-437
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56781	8	18-326	7-808	56853	14	8-650	12-166	56925	10	0-917	17-739	56997	9	23-078	20-500	57069	10	15-500	24-774
56782	11	18-630	7-575	56854	9	13-732	12-900	56926	28	3-032	17-550	56998	10	23-272	20-282	57070	16	15-897	24-790
56783	12	24-490	7-673	56855	23	17-494	12-218	56927	8	3-121	17-193	56999	10	25-160	20-292	57071	27	16-370	24-897
56784	8	25-252	7-758	56856	16	20-337	12-100	56928	8	4-635	17-761	57000	13	25-847	20-830	57072	21	18-350	24-022
56785	8	2-556	8-215	56857	10	20-586	12-480	56929	28	6-170	17-754	57001	13	2-321	21-787	57073	8	19-700	24-310
56786	9	3-354	8-026	56858	8	23-457	12-762	56930	13	7-682	17-725	57002	14	2-385	21-279	57074	20	23-521	24-448
56787	39	3-880	8-048	56859	16	23-838	12-456	56931	8	7-773	17-330	57003	38	3-394	21-600	57075	22	23-800	24-280
56788	22	4-662	8-652	56860	20	24-140	12-652	56932	8	8-450	17-880	57004	8	3-801	21-825	57076	19	25-539	24-332
56789	21	5-648	8-867	56861	9	24-160	13-511	56933	16	8-845	17-745	57005	8	6-648	21-630	57077	11	3-014	25-066
56790	8	8-812	8-354	56862	38	3-092	13-339	56934	8	12-121	17-100	57006	15	7-541	21-700	57078	8	4-784	25-574
56791	73	9-025	8-114	56863	10	3-948	13-732	56935	9	13-120	17-052	57007	19	8-328	21-488	57079	8	9-570	25-200
56792	8	11-748	8-096	56864	45	4-570	13-432	56936	8	13-812	17-472	57008	11	9-210	21-471	57080	8	10-054	25-639
56793	9	13-111	8-936	56865	8	5-520	13-144	56937	21	15-728	17-306	57009	8	13-783	21-071	57081	9	11-320	25-076
56794	12	13-225	8-200	56866	45	8-356	13-366	56938	25	17-185	17-840	57010	10	15-930</					

R.A. 19 <sup>h</sup> 4 <sup>m</sup>				13 <sup>h</sup> 40 <sup>m</sup>				13 <sup>h</sup> 45 <sup>m</sup>				13 <sup>h</sup> 50 <sup>m</sup>				13 <sup>h</sup> 55 <sup>m</sup>				14 <sup>h</sup> 00 <sup>m</sup>				14 <sup>h</sup> 05 <sup>m</sup>				14 <sup>h</sup> 10 <sup>m</sup>				14 <sup>h</sup> 15 <sup>m</sup>				14 <sup>h</sup> 20 <sup>m</sup>				14 <sup>h</sup> 25 <sup>m</sup>				14 <sup>h</sup> 30 <sup>m</sup>				14 <sup>h</sup> 35 <sup>m</sup>				14 <sup>h</sup> 40 <sup>m</sup>				14 <sup>h</sup> 45 <sup>m</sup>				14 <sup>h</sup> 50 <sup>m</sup>				14 <sup>h</sup> 55 <sup>m</sup>				15 <sup>h</sup> 00 <sup>m</sup>				15 <sup>h</sup> 05 <sup>m</sup>				15 <sup>h</sup> 10 <sup>m</sup>				15 <sup>h</sup> 15 <sup>m</sup>				15 <sup>h</sup> 20 <sup>m</sup>				15 <sup>h</sup> 25 <sup>m</sup>				15 <sup>h</sup> 30 <sup>m</sup>				15 <sup>h</sup> 35 <sup>m</sup>				15 <sup>h</sup> 40 <sup>m</sup>				15 <sup>h</sup> 45 <sup>m</sup>				15 <sup>h</sup> 50 <sup>m</sup>				15 <sup>h</sup> 55 <sup>m</sup>				16 <sup>h</sup> 00 <sup>m</sup>				16 <sup>h</sup> 05 <sup>m</sup>				16 <sup>h</sup> 10 <sup>m</sup>				16 <sup>h</sup> 15 <sup>m</sup>				16 <sup>h</sup> 20 <sup>m</sup>				16 <sup>h</sup> 25 <sup>m</sup>				16 <sup>h</sup> 30 <sup>m</sup>				16 <sup>h</sup> 35 <sup>m</sup>				16 <sup>h</sup> 40 <sup>m</sup>				16 <sup>h</sup> 45 <sup>m</sup>				16 <sup>h</sup> 50 <sup>m</sup>				16 <sup>h</sup> 55 <sup>m</sup>				17 <sup>h</sup> 00 <sup>m</sup>				17 <sup>h</sup> 05 <sup>m</sup>				17 <sup>h</sup> 10 <sup>m</sup>				17 <sup>h</sup> 15 <sup>m</sup>				17 <sup>h</sup> 20 <sup>m</sup>				17 <sup>h</sup> 25 <sup>m</sup>				17 <sup>h</sup> 30 <sup>m</sup>				17 <sup>h</sup> 35 <sup>m</sup>				17 <sup>h</sup> 40 <sup>m</sup>				17 <sup>h</sup> 45 <sup>m</sup>				17 <sup>h</sup> 50 <sup>m</sup>				17 <sup>h</sup> 55 <sup>m</sup>				18 <sup>h</sup> 00 <sup>m</sup>				18 <sup>h</sup> 05 <sup>m</sup>				18 <sup>h</sup> 10 <sup>m</sup>				18 <sup>h</sup> 15 <sup>m</sup>				18 <sup>h</sup> 20 <sup>m</sup>				18 <sup>h</sup> 25 <sup>m</sup>				18 <sup>h</sup> 30 <sup>m</sup>				18 <sup>h</sup> 35 <sup>m</sup>				18 <sup>h</sup> 40 <sup>m</sup>				18 <sup>h</sup> 45 <sup>m</sup>				18 <sup>h</sup> 50 <sup>m</sup>				18 <sup>h</sup> 55 <sup>m</sup>				19 <sup>h</sup> 00 <sup>m</sup>				19 <sup>h</sup> 05 <sup>m</sup>				19 <sup>h</sup> 10 <sup>m</sup>				19 <sup>h</sup> 15 <sup>m</sup>				19 <sup>h</sup> 20 <sup>m</sup>				19 <sup>h</sup> 25 <sup>m</sup>				19 <sup>h</sup> 30 <sup>m</sup>				19 <sup>h</sup> 35 <sup>m&lt;/</sup>
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57444	14	9-790	16-510	57516	17	15-374	19-680	57588	10	1-822	23-384	57706	31	17-627	2-628	57778			
57445	10	10-197	16-440	57517	8	16-656	19-132	57589	9	2-276	23-236	57707	34	17-970	2-961	57779			
57446	10	10-374	16-025	57518	11	18-033	19-680	57590	13	3-066	23-684	57708	15	17-974	2-284	57780			
57447	24	13-793	16-355	57519	22	20-629	19-322	57591	13	8-212	23-314	57709	8	19-009	2-287	57781			
57448	12	14-676	16-260	57520	19	22-736	19-954	57592	15	8-582	23-406	57710	10	19-354	2-292	57782			
57449	9	16-340	16-258	57521	18	22-782	19-066	57593	20	8-774	23-312	57711	8	20-458	2-092	57783			
57450	11	16-362	16-617	57522	12	24-444	19-424	57594	12	9-070	23-334	57712	24	20-859	2-116	57784			
57451	10	17-685	16-542	57523	10	0-702	20-044	57595	20	9-968	23-634	57713	12	21-240	2-583	57785			
57452*	32	17-756	16-736	57524	10	1-060	20-235	57596	11	10-816	23-562	57714	9	21-249	2-563	57786			
57453	8	18-024	16-736	57525	8	1-278	20-076	57597	10	12-548	23-817	57715	28	0-008	3-905	57787			
57454	13	18-326	16-364	57526	10	2-194	20-502	57598	21	13-055	23-446	57716	15	2-859	3-168	57788			
57455	13	20-722	16-053	57527	13	3-645	20-754	57599	11	15-821	23-964	57717	10	3-780	3-907	57789			
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58138*	48	22-268	22-194	<b>R.A. 19<sup>h</sup> 20<sup>m</sup></b> Plate 1074; 1917 Sept. 9. <i>Provisional Constants.</i> A B C -02566 +00605 -2444 D E F -00587 -02566 -0221 Mag. = 16.4 - 1.05√d	58256	9	3-634	7-057	58328*	38	6-016	14-879	58400	16	20-516	20-545
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58141	9	0-940	23-412		58259	10	11-034	7-744	58331	12	9-248	14-685	58403	11	1-794	21-574
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58143	10	7-046	23-508		58261	20	17-086	7-800	58333	13	10-641	14-070	58405*	40	3-852	21-460
58144	28	8-838	23-037		58262	26	17-009	7-254	58334	13	11-064	14-814	58406	8	7-916	21-061
58145	8	10-884	23-966		58263	14	21-128	7-130	58335	21	12-480	14-050	58407*	43	8-500	21-672
58146*	39	11-531	23-500		58264	14	1-221	8-085	58336	13	18-216	14-568	58408*	68	10-598	21-465
58147	8	12-186	23-723		58265	10	3-181	8-803	58337*	37	22-117	14-897	58409	25	11-084	21-616
58148*	40	15-290	23-163	<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58266	10	5-122	8-517	58338	38	1-044	15-318	58410	14	11-626	21-699
58149	12	17-180	23-562		58267	23	6-857	8-403	58339	39	1-340	15-384	58411	25	12-036	21-597
58150	10	17-254	23-782		58268	22	8-584	8-482	58340	20	6-032	15-520	58412	14	12-777	21-260
58151	10	17-272	23-466		58269	12	11-526	8-808	58341	11	6-664	15-274	58413	11	25-095	21-336
58152	9	17-830	23-143		58270	9	12-648	8-727	58342	11	9-500	15-558	58414	40	25-097	21-638
58153	30	19-547	23-710		58271	28	15-451	8-168	58343*	37	10-168	15-239	58415	26	0-558	22-553
58154	9	20-262	23-532		58272	9	21-722	8-062	58344*	34	15-860	15-444	58416	27	1-373	22-312
58155	9	21-056	23-222		58273	9	22-220	8-250	58345	40	10-812	15-402	58417	9	4-346	22-921
58156	14	22-942	23-119		58274	20	4-260	9-778	58346*	28	21-642	15-721	58418	11	8-486	22-547
58157	9	23-373	23-824		58275*	60	4-704	9-269	58347	12	22-337	15-618	58419*	47	9-826	22-094
58158	8	24-044	23-411	<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58276	24	5-522	9-850	58348*	41	23-444	15-318	58420	13	10-160	22-214
58159	10	25-550	23-820		58277	11	7-840	9-102	58349*	42	23-495	15-804	58421	16	10-656	22-397
58160	47	0-546	24-598		58278*	42	10-248	9-077	58350	10	24-320	15-132	58422	22	14-484	22-404
58161*	29	1-946	24-667		58279	13	11-714	9-294	58351	11	0-156	16-314	58423	17	16-697	22-719
58162	8	2-202	24-071		58280	11	14-212	9-148	58352	17	4-336	16-867	58424	15	0-554	23-418
58163	9	3-609	24-076		58281	11	14-433	9-081	58353	25	15-590	16-188	58425	29	3-616	23-776
58164	8	5-328	24-384		58282*	35	21-643	9-916	58354	33	16-097	16-452	58426	15	15-150	23-030
58165	10	6-128	24-402		58283	11	22-120	9-645	58355	12	17-159	16-797	58427*	48	17-986	23-896
58166	9	6-716	24-366		58284	16	22-468	9-082	58356	28	18-164	16-797	58428*	48	17-986	23-896
58167	10	8-676	24-816		58285	14	24-346	9-870	58357	20	18-845	16-451	58429	23	22-946	23-362
58168	8	8-888	24-816	<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58286*	38	24-366	9-870	58358	35	25-478	16-874	58430	14	25-052	23-892
58169	12	9-128	24-039		58287	25	6-103	10-606	58359	18	4-419	17-062	58431	43	1-648	24-466
58170	72	13-770	24-055		58288	44	6-576	10-162	58360	12	5-546	17-264	58432	8	3-166	24-112
58171	19	13-816	24-775		58289	17	9-438	10-384	58361	9	10-500	17-100	58433	21	4-966	24-266
58172	9	14-438	24-180		58290	20	9-799	10-460	58362	15	13-025	17-270	58434	10	15-768	24-564
58173	14	14-502	24-348		58291*	46	11-270	10-704	58363	14	21-064	17-935	58435	20	16-473	24-768
58174	10	15-198	24-240		58292	18	13-487	10-170	58364	10	21-868	17-782	58436	10	16-825	24-946
58175	10	15-570	24-615		58293	12	14-228	10-025	58365	34	23-486	17-810	58437	14	20-929	24-379
58176	8	16-645	24-859		58294	30	16-751	10-000	58366*	60	24-566	17-615	58438	52	22-537	24-958
58177	9	18-297	24-475		58295	15	3-458	11-284	58367	40	25-731	17-615	58439	28	22-732	24-426
58178	16	19-284	24-920	<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58296	8	4-114	11-394	58368	15	25-834	17-540	58440	20	7-601	25-634
58179*	34	20-003	24-658		58297	13	4-513	11-590	58369	10	0-168	18-924	58441	58	8-853	25-729
58180	8	20-100	24-746		58298	23	6-624	11-236	58370*	82	1-997	18-454	58442	38	9-750	25-342
58181	17	20-478	24-966		58299*	31	10-403	11-236	58371	15	5-910	18-778	58443	23	10-497	25-546
58182	11	21-402	24-962		58300	14	14-060	11-372	58372	31	7-713	18-237	58444	24	11-808	25-817
58183	40	24-036	24-172		58301	24	17-054	11-448	58373	9	9-990	18-044	58445	10	14-646	25-822
58184	10	1-792	25-466		58302	11	18-628	11-478	58374	15	12-364	18-512				
58185	38	2-002	25-528		58303	11	19-730	11-949	58375*	20	12-460	18-577				
58186	9	2-888	25-660		58304*	40	19-928	11-668	58376*	40	15-416	18-704				
58187	40	4-263	25-996		58305	22	20-452	11-556	58377	26	16-604	18-220				
58188	10	4-340	25-194	<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58306	36	22-428	11-472	58378	18	18-336	18-382				
58189	20	7-775	25-620		58307	36	1-595	12-053	58379	11	25-296	18-009				
58190	8	7-878	25-600		58308*	45	8-124	12-368	58380	45	2-685	19-538				
58191	15	8-622	25-268		58309	10	17-492	12-753	58381*	15	5-480	19-336				
58192	8	11-710	25-108		58310	14	19-182	12-312	58382	10	5-830	19-842				
58193	100	12-256	25-700		58311	23	20-058	12-524	58383	15	7-599	19-044				
58194	11	12-182	25-368		58312	22	0-703	13-077	58384	22	7-848	19-153				
58195	13	12-816	25-417		58313*	150	1-032	13-089	58385	22	8-130	19-040				
58196	8	14-026	25-307		58314	9	2-134	13-499	58386	28	8-584	19-822				
58197	10	18-794	25-521		58315	48	0-046	13-174	58387	11	10-412	19-638				
58198	8	21-791	25-662		58316	18	7-832	13-500	58388*	40	12-514	19-110				
				<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b> Plate 1076; 1917 Sept. 10. <i>Provisional Constants.</i> A B C -02568 +00811 -1626 D E F -00793 -02586 -2091 Mag. = 15.6 - 1.05√d	58317	12	8-426	13-121	58389	75	17-682	19-014				
					58318	9	9-958	13-157	58390*	24	18-845	19-121				
					58319	18	12-668	13-399	58391*	60	22-614	19-922				
					58320	36	16-745	13-307	58392	26	0-576	20-761				
					58321	25	16-766	13-544	58393	38	2-772	20-108				
					58322*	60	20-232	13-008	58394	31	5-732	20-360				
					58323	13	2-013	14-422	58395	14	7-125	20-662				
					58324	12	2-948	14-378	58396	30	11-290	20-554				
					58325	55	4-481	14-738	58397*	40	14-686	20-706				
					58326*	55	5-902	14-863	58398	35	14-686	20-706				
					58327*	54	5-904	14-818	58399	12						

58456	17	8-592	0-772	58528	10	0-260	9-038	58600	9	8-816	17-332	58672	74	19-918	24-888	58735	16	7-477	5-750
58457	11	8-974	0-293	58529	12	2-162	9-910	58601	15	19-154	17-620	58673	52	20-093	24-080	58736	12	10-112	5-644
58458	10	10-222	0-528	58530	34	2-207	9-750	58602	71	21-686	17-623	58674	8	24-356	24-628	58737	10	10-902	5-516
58459	21	12-204	0-730	58531	10	17-367	9-727	58603	9	22-764	17-518	58675	10	3-444	25-640	58738	10	11-282	5-428
58460	19	16-103	0-548	58532	23	20-572	9-812	58604	16	3-220	18-530	58676	25	4-418	25-672	58739	12	13-420	5-892
58461	12	20-094	0-530	58533	12	22-616	9-776	58605	49	3-986	18-676	58677	13	7-316	25-358	58740	10	16-685	5-538
58462	24	3-744	1-071	58534	32	24-032	9-648	58606	18	10-293	18-408	58678	9	8-405	25-348	58741	9	21-909	5-210
58463	16	9-660	1-732	58535	20	24-157	9-600	58607	12	13-009	18-490	58679	13	13-927	25-351	58742	10	1-619	6-015
58464	16	11-801	1-086	58536	18	24-608	9-857	58608	17	13-877	18-274	58680	20	16-786	25-351	58743	16	1-626	6-148
58465	27	12-026	1-089	58537	15	4-763	10-008	58609	10	14-379	18-282	58681	10	17-273	25-351	58744	10	1-632	6-302
58466	22	19-115	1-080	58538	16	7-634	10-684	58610	10	23-804	18-153	58682	34	19-278	25-480	58745	11	4-340	6-866
58467	12	16-457	1-881	58539	8	7-774	10-041	58611	28	0-556	19-874	58683	17	19-538	25-740	58746	11	5-598	6-331
58468	18	20-686	1-684	58540	10	10-020	10-112	58612	21	2-649	19-992	58684	16	22-617	25-619	58747	12	13-515	6-983
58469	11	25-152	1-228	58541	12	13-221	10-688	58613	33	5-018	19-903	58685	27	24-710	25-472	58748	14	13-864	6-040
58470	28	5-488	2-555	58542	10	17-300	10-729	58614	27	5-194	19-036					58749	15	14-153	6-245
58471	16	6-773	2-601	58543	17	20-515	10-808	58615	11	5-844	19-052					58750	12	15-835	6-162
58472	20	8-124	2-632	58544	14	20-929	10-598	58616	25	6-200	19-600					58751	10	16-022	6-468
58473	18	8-502	2-806	58545	13	22-325	10-948	58617	25	6-876	19-974					58752	11	24-599	6-325
58474	13	11-020	2-602	58546	11	22-390	10-112	58618	15	9-740	19-330					58753	10	0-907	7-316
58475	28	13-587	2-638	58547	15	24-382	10-208	58619	29	12-056	19-906					58754	13	2-455	7-828
58476	9	18-312	2-774	58548	22	0-255	11-427	58620	14	16-605	19-580					58755	14	2-606	7-756
58477	10	3-785	3-139	58549	26	0-268	11-428	58621	10	21-300	19-330					58756	9	10-615	7-668
58478	11	4-114	3-478	58550	37	6-033	11-060	58622	13	23-372	19-212					58757	12	11-220	7-578
58479	13	4-660	3-218	58551	14	11-606	11-793	58623	23	23-675	19-508					58758	23	11-786	7-695
58480	10	9-366	3-036	58552	32	12-917	11-049	58624	15	1-223	20-525					58759	10	12-650	7-628
58481	18	10-551	3-607	58553	19	13-428	11-295	58625	8	2-462	20-040					58760	17	15-674	7-254
58482	34	11-514	3-837	58554	24	24-072	12-074	58626	10	2-552	20-457					58761	13	21-258	7-940
58483	25	12-435	3-116	58555	12	8-268	12-681	58627	14	4-190	20-852					58762	13	4-596	8-058
58484	30	14-918	3-641	58556	12	14-937	12-000	58628	18	5-908	20-480					58763	26	5-334	8-350
58485	9	17-240	3-065	58557	26	23-686	12-786	58629	14	12-200	20-676					58764	8	5-847	8-980
58486	13	17-367	3-045	58558	17	5-182	13-789	58630	18	20-192	20-910					58765	14	16-161	8-236
58487	9	0-362	4-485	58559	17	8-824	13-510	58631	10	23-735	20-484					58766	13	19-542	8-150
58488	17	5-111	4-254	58560	32	13-900	13-510	58632	15	0-736	21-220					58767	54	20-235	8-402
58489	8	5-501	4-068	58561	9	16-220	13-201	58633	18	3-053	21-260					58768	23	21-188	8-818
58490	12	7-815	4-077	58562	29	17-309	13-230	58634	36	3-058	21-558					58769	25	21-140	9-550
58491	13	8-335	4-357	58563	16	19-715	13-688	58635	13	3-842	21-051					58770	20	7-680	9-031
58492	16	10-884	4-946	58564	14	10-896	13-130	58636	16	4-716	21-006					58771	10	15-519	9-218
58493	16	13-156	4-701	58565	11	22-509	13-636	58637	10	11-724	21-416					58772	10	18-666	9-948
58494	10	15-884	4-609	58566	9	22-613	13-386	58638	12	15-112	21-402					58773	22	22-250	9-466
58495	22	18-738	4-880	58567	26	24-257	13-738	58639	32	16-138	21-514					58774	11	0-076	10-409
58496	14	19-955	4-620	58568	12	3-148	14-214	58640	9	16-855	21-360					58775	11	0-307	10-156
58497	39	4-242	5-541	58569	14	17-102	14-114	58641	24	17-348	21-420					58776	24	1-718	10-020
58498	38	4-642	5-936	58570	9	17-548	14-115	58642	24	17-606	21-414					58777	10	2-074	10-576
58499	41	6-778	5-882	58571	15	20-753	14-808	58643	21	17-914	21-508					58778	15	2-142	10-028
58500	10	12-261	5-489	58572	18	21-352	14-858	58644	19	19-468	21-560					58779	14	2-355	10-227
58501	8	15-480	5-342	58573	9	25-652	14-722	58645	15	25-954	21-063					58780	13	6-093	10-579
58502	18	15-633	5-580	58574	16	25-824	14-994	58646	22	4-946	22-099					58781	10	7-866	10-860
58503	45	22-462	5-216	58575	33	1-328	15-258	58647	14	6-198	22-076					58782	20	8-593	10-685
58504	14	23-958	5-771	58576	32	1-386	15-835	58648	16	7-367	22-807					58783	9	18-928	10-874
58505	12	4-874	5-666	58577	9	3-093	15-878	58649	35	7-494	22-557					58784	12	20-330	10-698
58506	29	6-516	6-424	58578	23	3-938	15-170	58650	9	9-482	22-028					58785	12	21-513	10-086
58507	11	7-677	6-854	58579	20	5-599	15-064	58651	11	10-900	22-814					58786	18	24-341	10-956
58508	10	8-426	6-482	58580	14	13-100	15-342	58652	43	12-015	22-063					58787	11	24-064	10-640
58509	14	13-538	6-668	58581	18	15-562	15-336	58653	25	12-082	22-086					58788	14	0-020	11-336
58510	30	13-640	6-910	58582	8	21-602	15-111	58654	19	12-092	22-092					58789	19	6-426	11-411
58511	12	16-438	6-014	58583	31	3-382	16-788	58655	16	13-140	22-896					58790	20	15-741	11-400
58512	12	21-874	6-946	58584	24	7-916	16-592	58656	17	17-150	22-817					58791	10	18-366	11-274
58513	27	6-632	7-054	58585	27	11-668	16-510	58657	11	17-296	22-424					58792	12	19-108	11-234
58514	21	10-850	7-716	58586	30	14-810	16-612	58658	17	25-002	22-052					58793	16	21-166	11-424
58515	9	12-076	7-670	58587	40	15-214	16-074	58659	21	0-934	23-316					58794	13	22-116	11-982
58516	14	12-735	7-285	58588	9	17-117	16-582	58660	16	3-650	23-800					58795	11	24-060	11-898
58517	11	15-418	7-142	58589	16	19-082	16-822	58661	27	8-482	23-482					58796	15	1-772	12-175
58518	13	10-914	7-736	58590	32	20-790	16-074	58662	12	9-634	23-581					58797	11	17-838	12-220
58519	12	19-413	7-820	58591	11	21-235	16-008	58663	42	15-788	23-862					58798	12	19-910	12-016
58520	27	20-642	7-751	58592	11	24-408	16-764	58664	13	18-614	23-990					58799	25	23-154	12-548
58521	46	20-746	7-124	58593	34	25-532	16-420	58665	32	19-754	23-961					58800	9	23-958	12-814
58522	12	20-868	7-696	58594	31	1-491	17-722	58666	30	22-108	23-522					58801	18	1-393	13-103
58523	9	24-778	7-460	58595	48	2-482	17-738	58667	40	0-546	24-907					58802	15	12-413	13-474
58524	13	24-933	7-388	58596	34														

58807	8	20-632	13-468	58879	22	17-575	22-434	58970	14	2-285	2-665	59042	30	19-431	8-204	59114	19	3-630	16-086
58808	13	20-692	13-202	58880	18	18-628	22-826	58971	13	14-584	2-685	59043	28	22-886	8-044	59115	13	4-302	16-674
58809	13	22-246	13-215	58881	12	20-300	22-374	58972	28	18-111	2-332	59044	31	24-902	8-909	59116	12	5-667	16-210
58810	22	24-814	13-294	58882	21	24-052	22-874	58973	10	20-433	2-186	59045	39	25-132	8-438	59117	24	5-986	16-614
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R.A. 19<sup>h</sup> 52<sup>m</sup>

Plate 1116; 1917 Nov. 4.

## Provisional Constants.

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59322	10	7-050	7-739	59394	14	12-718	15-175	59466	24	19-118	22-841	59518	22	24-942	1-256
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R.A. 20<sup>h</sup> 0<sup>m</sup>

Plate 1065; 1917 May 21.

Provisional Constants.

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		Mag. = 15-8 - 1.05√d		

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59512*	42	13-012	1-234
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59515	28	19-162	1-820
59516	21	20-397	1-901
59517	28	21-238	1-530
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59522	10	11-562	2-372
59523	17	14-100	2-531
59524	11	19-620	2-449
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59526	13	25-830	2-504	59598	11	5-530	0-132	59670	10	10-100	16-780	59742	10	6-136	24-108	59829	60	20-060	2-650
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60257	29	19-100	20-135	60413	15	20-162	4-992	60485	38	18-690	9-128	60557*	76	10-596	15-095
60258*	36	19-654	20-422	60414	23	21-096	4-336	60486	16	19-412	9-124	60558	26	10-781	15-142
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R.A. 20 <sup>h</sup> 40 <sup>m</sup>															
Plate 1100; 1917 Oct. 14.															
Provisional Constants.															
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-02580 +00449 +1011															
D				E				F							
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60905	25	0-368	1-683	60905	25	0-368	1-683	60905	25	0-368	1-683	60905	25	0-368	1-683



R.A. 20 <sup>h</sup> 48 <sup>m</sup>										R.A. 20 <sup>h</sup> 56 <sup>m</sup>									
Plate 1098; 1917 Oct. 13.										Plate 761; 1916 Sept. 1.									
Provisional Constants.										Provisional Constants.									
A B C					D E F					A B C					D E F				
-02564 +00429 -0138					-00160 -02593 +2093					-02552 +01008 +1938					-01013 -02552 -0717				
Mag. = 15.6 - 1.05√d										Mag. = 16.6 - 1.05√d									
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60978	11	10.522	8.265	61050	12	23.520	17.912		61206	16	8.725	8.781	61278	11	7.082	18.067		61355	
60979	27	14.500	8.310	61051	16	0.288	18.814		61207	18	10.580	8.293	61279	12	13.097	18.387		61350	
60980	13	17.174	8.474	61052	64	4.456	18.026		61208	34	13.024	8.316	61280	36	15.590	18.998		61358	
60981	25	22.494	8.666	61053	9	7.945	18.925		61209	18	17.558	8.722	61281	26	18.904	18.008		61359	
60982	10	25.346	8.866	61054	15	8.800	18.646		61210	47	19.732	8.415	61282	16	22.563	18.608		61360	
60983	55	0.700	9.474	61055	12	15.020	18.840		61211	12	20.948	8.630	61283	43	0.690	19.788		61361	
60984	10	34.20	9.460	61056	18	17.501	18.767		61212	26	0.085	9.095	61284	9	4.286	19.709		61362	
60985	14	5.216	9.134	61057	23	22.100	18.052		61213	12	0.373	9.985	61285	40	4.822	19.946		61363	
60986	13	17.866	9.479	61058	27	24.188	18.074		61214	10	2.941	9.264	61286	14	14.546	19.201		61364	
60987	13	10.174	9.708	61059	27	25.204	18.112		61215	10	11.560	9.718	61287	20	17.712	19.098		61365	
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60995	18	14.085	10.886	61067	48	20.442	19.128		61223	21	14.100	10.206	61295	12	24.520	20.788		61373	
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60998	11	12.260	11.045	61070	47	22.987	19.366		61226	18	24.36	11.182	61298	30	12.850	21.708		61376	
60999	10	0.297	12.322	61071	11	0.577	20.456		61227	20	6.510	11.032	61299	13	17.885	21.972		61377	
61000	35	0.718	12.054	61072	25	1.084	20.854		61228	25	6.567	11.560	61300	21	22.566	21.303		61378	
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61002	23	3.229	12.854	61074	28	13.688	20.288		61230	19	8.886	11.497	61302	24	17.332	23.362		61380	
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61005	10	13.482	12.105	61077	10	3.341	21.860		61233	33	21.908	11.636	61305	26	7.962	23.700		61383	
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61008	9	23.822	12.339	61080	9	9.716	21.230		61236	40	10.768	12.055	61308	21	11.805	23.870		61386	
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61027	10	24.217	14.424	61099	21	17.200	24.641		61255	12	19.531	14.284							61405
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61040	12	9.340	10.530						61268	18									

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097	18-387
590	18-998
904	18-068
363	18-068
690	19-788
286	19-796
822	19-949
546	19-201
712	19-650
500	19-195
215	20-527
468	20-518
487	20-030
776	20-148
490	20-988
520	20-728
639	21-182
780	21-530
836	21-798
885	21-972
566	21-303
632	22-276
206	23-362
574	23-771
962	23-700
568	23-812
530	23-490
805	23-870
008	23-256
822	23-350
130	23-958
354	24-162
267	24-266
711	24-876
251	24-556
481	24-887
472	24-930
282	25-058
866	25-327
016	25-920
132	26-500
780	25-344
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286	25-520
340	25-201

56m

16 Sept. 1.

### Constants

C

31.7804

0.59 -0.07

1.05  $\bar{C}_w$ 

— **W. J. G. M. V. M.**

[illegible]

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400	0.5

098	0.3
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1555-0171

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61718	8	7.172	9.681	61790	10	15.802	13.924	61862	27	23.906	18.148	61934	19	20.176	23.282	62012	16	1.365	2.713
61719	11	10.723	9.844	61791	14	17.933	13.788	61863	8	0.100	19.773	61935	17	21.920	23.434	62013	25	2.806	2.094
61720	12	12.816	9.810	61792	9	4.524	14.312	61864	16	2.831	19.552	61936	8	1.868	24.578	62014	14	7.243	2.061
61721	10	15.550	9.276	61793	8	5.896	14.113	61865	22	3.442	19.204	61937	22	4.795	24.843	62015	32	15.084	2.715
61722	19	18.194	9.101	61794	8	6.051	14.228	61866	18	4.936	19.768	61938	19	5.919	24.956	62016	15	23.534	2.535
61723	8	18.329	9.660	61795	20	6.872	14.844	61867	10	5.841	19.754	61939	10	8.047	24.495	62017	32	1.936	3.884
61724	8	21.302	9.058	61796	14	7.536	14.492	61868	28	7.518	19.578	61940	9	9.476	24.614	62018	70	18.428	3.056
61725	27	21.858	9.415	61797	22	8.284	14.024	61869	30	9.568	19.330	61941	16	9.447	24.556	62019	11	23.551	3.621
61726	17	22.573	9.616	61798	13	12.738	14.135	61870	10	14.232	19.020	61942	8	10.490	24.262	62020	134	25.792	3.760
61727	18	23.693	9.443	61799	9	13.750	14.032	61871	41	16.108	19.795	61943	13	10.808	24.660	62021	20	0.200	4.674
61728	11	23.748	9.260	61800	15	13.977	14.066	61872	8	16.650	19.792	61944	41	11.018	24.317	62022	20	12.972	4.283
61729	10	24.147	9.257	61801	19	16.154	14.648	61873	16	19.000	19.475	61945	19	16.460	24.685	62023	20	19.561	4.420
61730	11	25.952	9.175	61802	8	17.254	14.270	61874	37	19.681	19.438	61946	11	17.304	24.121	62024	16	21.552	4.226
61731	13	0.804	10.781	61803	8	21.864	14.228	61875	13	22.472	19.372	61947	8	17.366	24.818	62025	10	25.097	4.670
61732	10	3.763	10.326	61804	9	23.734	14.663	61876	18	3.150	20.757	61948	12	22.362	24.675	62026	30	1.478	5.771
61733	33	5.207	10.080	61805	20	6.296	15.600	61877	10	6.289	20.656	61949	21	25.764	24.818	62027	21	10.594	5.414
61734	10	6.485	10.182	61806	8	7.966	15.292	61878	14	6.724	20.681	61950	33	0.462	25.410	62028	23	10.982	5.271
61735	108	7.674	10.644	61807	8	8.394	15.952	61879	15	10.370	20.190	61951	10	0.812	25.468	62029	15	12.535	5.570
61736	15	11.222	10.022	61808	9	8.610	15.926	61880	12	14.656	20.768	61952	11	1.228	25.715	62030	25	15.801	5.352
61737	25	11.909	10.056	61809	11	12.622	15.606	61881	52	15.460	20.896	61953	11	1.698	25.377	62031	33	20.376	5.791
61738	9	15.375	10.046	61810	30	15.028	15.458	61882	13	15.900	20.640	61954	26	2.910	25.057	62032	24	20.726	5.474
61739	12	15.949	10.866	61811	10	15.320	15.214	61883	33	15.935	20.135	61955	12	4.238	25.592	62033	20	22.839	5.350
61740	52	16.020	10.884	61812	8	16.153	15.498	61884	8	22.046	20.478	61956	10	5.226	25.252	62034	31	0.414	6.004
61741	20	23.452	10.378	61813	11	17.500	15.384	61885	13	22.412	20.965	61957	8	5.492	25.712	62035	19	0.990	6.098
61742	11	23.484	10.020	61814	8	21.363	15.704	61886	8	24.937	20.936	61958	19	5.492	25.807	62036	14	3.900	6.666
61743	13	25.764	10.010	61815	25	22.862	15.148	61887	8	25.195	20.234	61959	9	5.787	25.486	62037	20	4.215	6.078
61744	28	1.000	11.143	61816	20	23.146	15.043	61888	8	25.077	20.843	61960	53	5.944	25.236	62038	26	7.268	6.894
61745	10	2.427	11.796	61817	18	1.006	16.917	61889	9	25.931	20.054	61961	11	6.203	25.643	62039	13	11.884	6.866
61746	14	5.745	11.272	61818	25	3.242	16.086	61890	11	2.167	21.187	61962	53	11.720	25.530	62040	38	16.552	6.974
61747	26	5.956	11.175	61819	8	3.653	16.225	61891	10	3.678	21.378	61963	19	11.513	25.720	62041	19	16.760	6.518
61748	8	6.066	11.346	61820	8	4.480	16.139	61892	16	3.939	21.354	61964	20	13.462	25.126	62042	30	21.418	6.638
61749	25	7.694	11.280	61821	8	6.163	16.500	61893	8	4.190	21.419	61965	10	16.507	25.009	62043	20	22.749	6.172
61750	15	8.156	11.584	61822	44	7.252	16.761	61894	14	6.922	21.593	61966	8	16.557	25.180	62044	28	25.404	6.134
61751	15	16.268	11.494	61823	8	8.256	16.771	61895	10	7.384	21.172	61967	10	17.660	25.258	62045	11	4.900	7.818
61752	16	16.282	11.096	61824	8	8.582	16.591	61896	32	8.654	21.407	61968	20	18.440	25.374	62046	29	12.387	7.738
61753	32	18.837	11.798	61825	8	9.384	16.839	61897	10	10.248	21.544	61969	11	19.403	25.970	62047	13	13.824	7.590
61754	8	19.020	11.644	61826	8	10.722	16.534	61898	10	11.068	21.958	61970	9	19.940	25.728	62048	26	14.419	7.928
61755	19	19.206	11.412	61827	15	14.150	16.178	61899	41	12.607	21.936					62049	11	20.164	7.728
61756	8	20.310	11.962	61828	33	14.874	16.944	61900	33	13.140	21.727					62050	11	20.194	7.184
61757	10	21.505	11.561	61829	13	15.130	16.901	61901	8	15.399	21.850					62051	14	22.933	7.450
61758	16	22.022	11.380	61830	17	15.232	16.952	61902	26	17.086	21.644					62052	10	1.040	8.168
61759	26	22.571	11.017	61831	10	19.775	16.606	61903	31	19.095	21.294					62053	45	3.161	8.845
61760	10	23.072	11.387	61832	8	24.319	16.215	61904	15	20.822	21.782					62054	41	4.859	8.220
61761	44	24.546	11.982	61833	32	25.725	16.798	61905	37	21.236	21.674					62055	19	7.142	8.730
61762	8	4.568	12.558	61834	9	1.533	17.325	61906	8	21.364	21.728					62056	14	8.852	8.566
61763	9	4.904	12.800	61835	18	2.409	17.796	61907	37	21.512	21.858					62057	30	11.000	8.562
61764	8	9.913	12.237	61836	8	3.484	17.438	61908	11	22.101	21.650					62058	16	18.269	8.943
61765	13	10.512	12.982	61837	9	3.848	17.080	61909	13	23.570	21.483					62059	21	18.411	8.959
61766	15	10.716	12.400	61838	18	7.461	17.739	61910	8	24.802	21.595					62060	16	0.168	9.946
61767	27	11.014	12.377	61839	9	7.875	17.218	61911	11	25.073	21.698					62061	14	1.283	9.758
61768	8	11.963	12.722	61840	20	10.612	17.396	61912	9	25.822	21.278					62062	95	5.834	9.694
61769	12	12.116	12.668	61841	9	11.366	17.920	61913	8	1.752	22.958					62063	26	9.264	9.474
61770	10	13.702	12.740	61842	8	11.612	17.186	61914	17	3.216	22.188					62064	19	15.993	9.429
61771	25	15.672	12.833	61843	32	14.974	17.261	61915	10	9.012	22.666					62065	21	17.565	9.468
61772	8	16.012	12.802	61844	8	16.138	17.770	61916	26	12.405	22.830					62066	14	17.742	9.862
61773	16	16.986	12.156	61845	22	16.486	17.644	61917	8	13.234	22.106					62067	12	18.797	9.818
61774	19	17.740	12.558	61846	10	17.476	17.472	61918	44	14.086	22.390					62068	20	1.052	10.694
61775	10	17.844	12.280	61847	37	18.108	17.468	61919	8	17.566	22.307					62069	10	1.083	10.336
61776	8	20.310	12.914	61848	8	19.198	17.294	61920	30	18.944	22.704								

62078	18	0-180	11-344	62150	13	14-720	21-853	62234	135	3-286	3-717	62306	34	2-658	10-938	62378	40	16-468	17-950
62079	13	3-372	11-200	62151	13	17-914	21-436	62235	12	7-046	3-366	62307	30	6-538	10-796	62379	17	19-668	17-261
62080	98	14-622	11-064	62152	10	20-230	21-468	62236	39	12-672	3-230	62308	11	8-173	10-091	62380	25	21-095	17-330
62081	42	15-460	11-890	62153	36	24-631	21-984	62237	22	14-591	3-549	62309	23	11-470	10-581	62381	30	23-251	17-100
62082	18	15-926	11-438	62154	10	25-114	21-357	62238	43	15-351	3-766	62310	31	13-248	10-080	62382	44	0-856	18-792
62083	17	18-703	11-896	62155	12	2-518	22-538	62239	29	15-538	3-652	62311	27	14-738	10-579	62383	13	5-700	18-989
62084	11	19-647	11-582	62156	18	7-856	22-575	62240	23	16-654	3-516	62312	31	15-326	10-792	62384	28	6-884	18-558
62085	57	2-164	12-288	62157	11	11-005	22-762	62241	28	21-362	3-839	62313	32	15-484	10-094	62385	22	10-426	18-858
62086	60	2-691	12-816	62158	30	15-900	22-955	62242	21	22-270	3-300	62314	33	16-264	10-818	62386	14	11-148	18-232
62087	40	5-476	12-379	62159	13	9-602	23-390	62243	26	1-084	4-596	62315	27	24-455	10-449	62387	18	12-866	18-184
62088	12	6-446	12-046	62160	14	13-618	23-556	62244	28	4-812	4-022	62316	23	1-382	11-100	62388	30	21-258	18-111
62089	12	8-772	12-857	62161	12	19-820	23-280	62245	33	6-220	4-268	62317	13	2-520	11-026	62389	23	23-516	18-151
62090	10	12-368	12-806	62162	20	3-532	24-966	62246	28	9-430	4-854	62318	44	4-257	11-637	62390	31	23-568	18-694
62091	19	20-509	12-127	62163	12	11-500	24-024	62247	38	9-990	4-167	62319	25	5-698	11-034	62391	21	1-100	19-486
62092	12	11-340	13-311	62164	26	20-810	24-327	62248	21	13-792	4-609	62320	15	6-170	11-328	62392	22	4-248	10-246
62093	38	18-801	13-009	62165	62	14-426	25-396	62249	34	18-482	4-384	62321	38	8-072	11-789	62393	22	7-364	19-228
62095	11	6-680	14-736	62166	76	24-250	25-993	62250	46	18-782	4-262	62322	14	11-187	11-308	62394	31	8-784	19-837
62096	11	11-406	14-540					62251	37	19-169	4-266	62323	29	19-100	11-969	62395	22	9-160	19-384
62097	12	17-230	14-779					62252	26	19-280	4-298	62324	31	22-682	11-348	62396	38	12-408	19-584
62098	21	17-900	14-380					62253	13	19-505	4-808	62325	19	1-176	12-086	62397	19	12-720	19-620
62099	16	19-770	14-251					62254	15	23-547	4-426	62326	27	2-459	12-736	62398	27	13-066	19-520
62100	30	20-142	14-932					62255	31	0-355	5-343	62327	13	3-799	12-742	62399	45	14-553	19-088
62101	16	21-413	14-166					62256	12	4-114	5-548	62328	44	4-270	12-434	62400		17-355	19-011
62102	20	25-197	14-695					62257	18	4-740	5-393	62329	18	4-790	12-328	62401	38	23-418	19-712
62103	15	0-800	15-363					62258	21	10-086	5-065	62330	12	7-669	12-420	62402	32	23-698	19-568
62104	14	16-016	15-981					62259	26	11-355	5-864	62331	19	17-719	12-939	62403	12	3-384	20-421
62105	18	16-170	15-288					62260	33	13-744	5-602	62332	11	0-121	13-694	62404	12	6-130	20-634
62106	62	4-218	16-259					62261	42	20-164	5-320	62333	12	3-486	13-276	62405	54	6-638	20-702
62107	11	7-030	16-404					62262	18	21-720	5-194	62334	31	7-147	13-260	62406	36	9-166	20-697
62108	10	15-206	16-574					62263	14	23-500	5-863	62335	19	9-442	13-964	62407	39	12-762	20-236
62109	10	16-500	16-615					62264	43	23-762	5-696	62336	30	17-154	13-942	62408	45	2-320	21-951
62110	18	17-288	16-322					62265	33	24-344	5-488	62337	27	22-154	13-651	62409	14	10-479	21-192
62111	35	23-906	16-330					62266	11	24-714	5-654	62338	19	23-674	13-210	62410	27	12-086	21-062
62112	33	25-798	16-900					62267	33	0-276	6-461	62339	16	24-006	13-444	62411	29	13-799	21-697
62113	22	2-561	17-544					62268	16	0-576	6-822	62340	23	25-894	13-684	62412	45	15-558	21-926
62114	25	3-398	17-090					62269	18	2-264	6-404	62341	11	1-198	14-178	62413	40	17-874	21-654
62115	12	8-432	17-390					62270	39	2-925	6-097	62342	35	2-806	14-660	62414	38	18-782	21-034
62116	29	8-856	17-500					62271	22	6-603	6-200	62343	37	7-490	14-938	62415	48	24-440	21-471
62117	142	13-770	17-183					62272	49	6-635	6-765	62344	22	8-588	14-405	62416	21	1-444	22-140
62118	12	16-134	17-284					62273	37	8-534	6-770	62345	45	17-798	14-416	62417	15	1-468	22-155
62119	23	16-778	17-706					62274	36	9-834	6-006	62346	10	18-121	14-368	62418	32	5-077	22-274
62120	22	18-074	17-358					62275	26	9-870	6-817	62347	34	18-867	14-420	62419	15	8-036	22-440
62121	14	21-669	17-315					62276	39	11-248	6-215	62348	25	20-526	14-535	62420	16	21-100	22-764
62122	15	1-597	18-456					62277	21	16-366	6-312	62349	25	21-102	14-996	62421	21	24-152	22-292
62123	35	3-783	18-450					62278	33	18-240	6-248	62350	21	22-182	14-674	62422	34	9-383	23-772
62124	42	5-900	18-575					62279	36	19-046	6-157	62351	22	22-878	14-036	62423	14	10-209	23-449
62125	21	0-356	18-008					62280	39	13-431	0-250	62352	22	2-496	15-098	62424	24	11-040	23-632
62126	11	9-930	18-848					62281	18	7-938	7-498	62353	13	3-554	15-370	62425	33	14-050	23-725
62127	40	12-514	18-269					62282	19	14-582	7-644	62354	41	6-198	15-817	62426	20	16-956	23-850
62128	38	12-669	18-470					62283	15	14-619	7-393	62355	10	12-700	15-160	62427	20	20-684	23-630
62129	12	14-094	18-760					62284	21	16-917	7-062	62356	17	12-766	15-226	62428	11	3-621	24-413
62130	14	15-174	18-873					62285	30	18-168	7-784	62357	30	13-882	15-082	62429	39	8-747	24-824
62131	11	19-124	18-532					62286	26	19-686	7-272	62358	23	15-312	15-922	62430	33	10-181	24-299
62132	28	23-204	18-806					62287	16	0-788	8-360	62359	21	15-531	15-164	62431	17	10-228	24-283
62133	13	6-957	19-350					62288	17	1-827	8-767	62360	19	21-368	15-640	62432	32	10-382	24-712
62134	43	13-167	19-373					62289	27	3-152	8-417	62361	43	1-536	16-307	62433	14	11-168	24-342
62135	13	13-785	19-553					62290	19	3-912	8-572	62362	40	3-430	16-858	62434	54	12-996	24-208
62136	14	15-778	19-420					62291	59	15-899	8-794	62363	18	5-412	16-858	62435	34	13-744	24-972
62137	11	19-838	19-250					62292	16	17-803	8-942	62364	30	8-540	16-800	62436	12	15-812	24-930
62138	10	23-440	19-504					62293	60	20-398	8-670	62365	37	9-668	16-592	62437	28	21-076	24-404
62139	10	5-200	20-840					62294	33	24-596	8-843	62366	25	11-108	16-922	62438	20	21-970	24-180
62140	25	6-046	20-000					62295	34	25-266	8-873	62367	14	13-412	16-156	62439	36	25-510	24-556
62141	14	6-269	20-493					62296	10	1-034	9-514	62368	40	14-322	16-380	62440	78	1-976	25-066
62142	10	11-154	20-356					62297	11	4-082	9-388	62369	17	14-816	16-681	62441	48	4-716	25-470
62143	34	16-144	20-026					62298	20	10-060	9-188	62370	28	18-524	16-403	62442	27	6-166	25-170
62144	12	17-839	20-591					62299	35	18-702	9-250	62371	17	19-790	16-266	62443	12	10-821	25-640
62145	11	19-248	20-062					62300	29	19-534	9-452	62372	15	2-954	17-635	62444	13	14-071	25-609
62146	12	0-132	21-295					6230											

R.A. 21 <sup>h</sup> 28 <sup>m</sup>				R.A. 21 <sup>h</sup> 36 <sup>m</sup>			
Plate 1127; 1917 Nov. 7.				Plate 1108; 1917 Oct. 15.			
Provisional Constants.				Provisional Constants.			
A B C		D E F		A B C		D E F	
-0.2556 +0.0049 -0.0148				-0.2542 +0.0943 -0.1332			
D E F		D E F		D E F		D E F	
-0.0022 -0.2568 +0.2114				-0.0938 -0.2542 +0.0507			
Mag. = 16.2 - 1.05√d				Mag. = 16.7 - 1.05√d			
No.	d	s	y	No.	d	s	y
62451	17	2.064	0.918	62651	21	0.704	0.160
62452	16	6.511	0.673	62652	20	3.106	0.207
62453	42	15.868	0.615	62653	12	4.062	0.862
62454	23	25.606	0.123	62654	38	6.881	0.936
62455	23	1.570	1.827	62655	11	7.600	0.390
62456	23	12.326	1.668	62657	15	11.404	0.550
62457	23	17.586	1.936	62658	26	12.379	0.084
62458	14	22.742	1.218	62659	16	12.548	0.352
62459	32	2.154	2.100	62660	15	16.284	0.215
62460	30	2.574	2.513	62661	18	20.967	0.866
62461	38	3.096	2.745	62662	62	21.512	0.668
62462	20	9.012	2.333	62663	15	22.048	0.335
62463	17	12.040	2.642	62664	13	23.200	0.915
62464	22	16.170	2.358	62665	13	23.432	0.142
62465	40	18.877	2.181	62666	26	0.259	1.265
62466	14	20.432	2.492	62667	20	6.300	1.524
62467	56	20.816	2.846	62668	28	6.470	1.358
62468	25	7.800	3.100	62669	31	7.543	1.170
62469	24	13.670	3.902	62670	10	14.462	1.283
62470	38	15.855	3.223	62671	13	14.844	1.282
62471	35	15.855	3.146	62672	37	15.542	1.046
62472	41	16.214	3.953	62673	29	17.045	1.951
62473	22	17.466	3.784	62674	11	17.550	1.400
62474	17	22.951	3.085	62675	14	19.392	1.489
62475	16	1.310	4.896	62676	38	23.517	1.456
62476	15	5.439	4.393	62677	16	3.670	2.036
62477	32	6.372	4.755	62678	10	4.564	2.254
62478	27	8.566	4.645	62679	19	5.078	2.764
62479	20	9.378	4.178	62680	23	5.520	2.842
62480	14	11.626	4.703	62681	19	6.792	2.191
62481	22	12.511	4.954	62682	160	8.524	2.279
62482	26	2.087	5.952	62683	10	8.816	2.403
62483	37	4.216	5.038	62684	14	9.253	2.744
62484	17	6.420	5.760	62685	22	9.909	2.589
62485	19	14.616	5.318	62686	12	15.115	2.115
62486	20	14.979	5.922	62687	12	19.476	2.186
62487	17	19.005	5.743	62688	11	20.105	2.266
62488	14	22.449	5.273	62689	14	0.504	3.132
62489	16	22.714	5.338	62690	14	3.754	3.043
62490	36	23.242	5.258	62691	43	10.024	3.516
62491	32	24.115	5.086	62692	10	14.846	3.768
62492	28	24.850	5.721	62693	42	15.788	3.685
62493	30	1.524	6.161	62694	14	15.995	3.658
62494	22	5.438	6.836	62695	21	22.320	3.272
62495	16	7.382	6.560	62696	14	25.193	3.112
62496	18	8.364	6.856	62697	50	4.300	3.666
62497	26	4.132	7.730	62698	13	4.980	4.890
62498	16	7.876	7.128	62699	13	7.097	4.021
62499	26	14.605	7.550	62700	20	7.553	5.594
62500	21	20.122	7.284	62701	24	10.463	4.676
62501	48	21.322	7.408	62702	15	13.285	4.685
62502	38	4.056	8.006	62703	19	14.458	4.781
62503	13	6.148	8.702	62704	39	14.750	4.696
62504	36	10.688	8.634	62705	27	16.066	4.072
62505	16	11.767	8.449	62578	24	1.073	17.566
62506	22	18.108	8.342	62579	23	6.910	17.012
62507	40	19.100	8.439	62580	25	8.155	17.012
62508	14	19.984	8.651	62581	18	12.895	17.136
62509	60	24.930	8.727	62582	38	13.356	17.458
62510	22	25.494	8.036	62583	20	14.500	17.226
62511	32	2.376	9.302	62584	36	20.978	17.479
62512	28	3.046	9.330	62585	22	21.020	17.618
62513	58	6.244	9.179	62586	22	1.341	18.620
62514	19	8.146	9.942	62587	36	3.808	18.702
62515	27	8.550	9.793	62588	15	6.924	18.156
62516	17	11.855	9.746	62589	20	7.248	18.014
62517	36	14.264	9.208	62590	19	10.624	18.286
62518	18	15.352	9.888	62591	19	13.192	18.406
62519	14	21.836	9.372	62592	25	15.724	18.130
62520	13	24.154	9.119	62593	24	15.998	18.064
62521	27	0.350	10.145	62594	26	1.397	19.160
62522	34	0.758	10.036	62595	26	4.664	19.351
62523	22	2.244	10.910	62596	30	5.901	19.111
62524	26	4.772	11.816	62597	36	6.110	19.367
62525	16	1.145	11.565	62598	32	18.439	19.190
62526	12	9.795	11.262	62599	37	20.764	18.841
62527	16	12.705	11.632	62600	33	25.465	19.755
62528	26	21.940	11.060	62601	32	1.250	20.180
62529	40	21.975	11.716	62602	24	1.528	20.034
62530	24	6.366	12.700	62603	28	4.640	20.174
62531	21	6.792	12.633	62604	36	8.630	20.666
62532	17	9.316	12.523	62605	23	9.275	20.572
62533	36	10.974	12.764	62606	14	10.695	20.802
62534	30	14.026	12.964	62607	16	11.436	20.956
62535	16	16.625	12.780	62608	20	14.248	20.226
62536	17	17.651	12.954	62609	16	18.048	20.106
62537	16	19.446	12.811	62610	27	19.575	20.504
62538	26	21.200	12.170	62611	28	25.614	20.759
62539	37	21.580	12.056	62612	46	2.280	21.934
62540	22	22.728	12.148	62613	21	13.820	21.128
62541	31	24.798	12.402	62614	31	22.208	21.656
62542	20	1.808	13.910	62615	39	24.968	21.918
62543	15	4.054	13.326	62616	36	4.915	22.090
62544	17	4.840	13.118	62617	16	8.846	22.950
62545	39	5.066	13.948	62618	15	9.524	22.286
62546	21	10.251	13.684	62619	28	12.006	22.760
62547	21	10.410	13.391	62620	34	14.600	22.962
62548	16	13.599	13.172	62621	30	14.869	22.519
62549	23	24.174	13.772	62622	16	17.656	22.514
62550	37	25.932	13.926	62623	59	20.430	22.522
62551	16	0.682	14.505	62624	17	24.169	22.186
62552	36	7.010	14.903	62625	17	9.410	23.244
62553	25	7.645	14.389	62626	21	12.210	23.372
62554	26	13.474	14.700	62627	24	14.400	23.088
62555	16	16.620	14.018	62628	19	18.130	23.210
62556	15	17.322	14.547	62629	78	23.130	23.100
62557	12	18.790	14.562	62630	20	24.689	23.216
62558	20	19.387	14.950	62631	18	4.512	24.471
62559	36	20.359	14.813	62632	26	5.218	24.990
62560	26	21.206	14.505	62633	16	8.321	24.340
62561	21	4.271	15.663	62634	48	10.541	24.637
62562	19	7.920	15.323	62635	36	11.654	24.512
62563	25	13.539	15.990	62636	20	13.344	24.484
62564	36	15.393	15.707	62637	17	16.060	24.336
62565	19	18.046	15.936	62638	19	17.438	24.492
62566	21	4.634	16.008	62639	38	24.606	24.657
62567	31	11.212	16.952	62640	36	3.370	25.012
62568	22	11.622	16.412	62641	26	9.708	25.395
62569	32	13.541	16.338	62642	22	10.740	25.304
62570	14	14.573	16.229	62643	36	12.618	25.718
62571	24	14.824	16.086	62644	22	20.035	25.863
62572	12	15.692	16.214	62645	38	21.308	25.640



4-069	62778	27	11-470	11-564	62850*	51	7-126	19-235	R.A. 21 <sup>h</sup> 44 <sup>m</sup>	63006	36	1-896	5-385	63078	35	25-197	10-406
4-715	62779	12	14-304	11-326	62851	10	8-655	19-836	Plate 795; 1916 Nov. 16.	63007	20	5-871	5-556	63079	24	25-600	10-216
4-538	62780	11	20-750	11-941	62852	35	9-028	19-007	Provisional Constants.	63008	22	8-184	5-649	63080	28	5-606	11-256
4-799	62781	19	0-458	12-194	62853	10	10-116	19-469	A B C	63009	22	10-815	5-942	63081	23	10-376	11-230
4-716	62782	26	2-535	12-408	62854	13	10-126	19-588	-02545 +00815 +0860	63010	29	11-515	5-562	63082	22	14-173	11-646
4-866	62783*	34	11-708	12-660	62855	12	13-612	19-400	D E F	63011	9	19-682	5-163	63083	10	16-978	11-946
5-326	62784	36	14-433	12-878	62856	13	17-752	19-728	-00300 -02550 -3388	63012	11	21-626	5-626	63084	16	17-020	11-997
5-386	62785	19	19-546	12-086	62857	14	19-047	19-265	Mag. = 16-4 - 1.05√d	63013	24	2-456	6-476	63085	14	17-900	11-620
5-588	62786	14	20-155	12-054	62858	11	20-884	19-110		63014	28	3-066	6-924	63086	22	19-958	11-732
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5-206	62788	25	25-291	12-952	62860	23	25-878	19-722		63016	12	5-168	6-066	63088	33	22-236	11-206
5-725	62789	10	0-095	13-974	62861	12	1-706	20-631		63017	12	7-744	6-024	63089	10	2-500	12-616
5-681	62790	14	1-350	13-199	62862	20	3-515	20-746		63018	27	8-185	6-202	63090	30	2-642	12-794
5-938	62791	17	1-936	13-789	62863	23	9-328	20-953		63019	33	8-640	6-331	63091	34	3-173	12-778
5-550	62792	35	3-094	13-912	62864	14	11-010	20-754		63020	30	10-560	6-542	63092	14	6-460	12-476
5-720	62793	15	5-073	13-243	62865*	36	19-552	20-036		63021	8	12-196	6-494	63093	8	7-788	12-818
5-944	62794	12	7-360	13-736	62866	13	20-365	20-590		63022	10	14-674	6-530	63094	8	8-406	12-698
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5-908	62796	13	9-106	13-045	62868	19	22-248	20-706		63024	11	15-712	6-093	63096	12	8-874	12-284
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5-148	62799	17	20-734	13-700	62871*	39	2-886	21-918		63027	12	20-756	6-819	63099	15	12-855	12-948
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6-646	62809	27	23-397	14-804	62881	10	19-621	21-507		63037	15	11-675	7-980	63109	36	6-250	13-436
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7-084	62812	19	0-578	15-942	62884*	42	7-010	22-835		63040	8	20-474	7-017	63112	34	9-300	13-250
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7-976	62814	11	14-550	15-768	62886	11	8-540	22-754		63042	11	3-626	8-826	63114	16	11-476	13-934
7-430	62815	15	22-104	15-736	62887*	50	8-945	22-993		63043	9	4-256	8-804	63115	12	11-927	13-942
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8-730	62820	42	9-932	16-600	62892	10	15-211	22-584		63048	11	20-523	8-034	63120	23	25-332	13-834
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8-472	62823	13	13-529	16-192	62895*	76	1-069	23-136		63051	10	25-575	8-062	63123	29	1-866	14-730
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8-838	62825	23	4-239	17-746	62897	14	6-822	23-247		63053	18	3-143	9-306	63125	21	4-055	14-522
8-572	62826	14	5-159	17-288	62898*	43	6-851	23-003		63054	30	3-970	9-242	63126	8	4-285	14-451
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8-616	62829	19	12-104	17-450	62901	17	12-106	23-724		63057*	69	7-471	9-489	63129	8	10-962	14-548
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9-002	62839	9	3-564	18-497	62911	25	14-776	24-971		63067	17	6-475	10-219	63139	25	18-535	15-000
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11-343	62848	27</															

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63152	25	8-775	16-818	63224	24	19-800	20-218	63296	8	14-088	25-636	63392	29	15-326	5-036	63464	14	25-157	12-439
63153	30	10-215	16-294	63225	14	23-290	20-112	63297	8	18-054	25-522	63393	29	19-212	5-284	63465	12	25-222	12-090
63154	39	15-676	16-436	63226	13	23-916	20-320	63298	36	18-582	25-389	63394	35	19-726	5-568	63466	14	0-118	13-394
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63159	32	24-718	16-734	63231	20	7-494	21-406					63399	25	3-908	6-928	63471	22	13-024	13-489
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63164	8	5-044	17-315	63236	24	12-184	21-931					63404	12	20-252	6-774	63476	12	21-224	13-802
63165	11	10-514	17-286	63237	11	12-360	21-494					63405	22	23-286	6-980	63477	13	23-319	13-730
63166	29	11-400	17-140	63238	19	13-165	21-620					63406	32	1-155	7-491	63478	34	24-018	13-528
63167	28	13-480	17-767	63239	20	15-900	21-762					63407	11	7-549	7-092	63479	32	24-798	13-400
63168	14	13-586	17-546	63240	23	16-595	21-192					63408	28	7-822	7-622	63480	30	25-327	13-275
63169	29	14-314	17-252	63241	10	17-415	21-764					63409	22	10-846	7-911	63481	23	25-926	13-150
63170	15	14-526	17-292	63242	8	17-477	21-918					63410	30	19-119	7-998	63482	27	2-906	14-240
63171	30	14-554	17-599	63243	14	17-712	21-790					63411	22	22-348	7-428	63483	38	5-797	14-788
63172	14	14-802	17-399	63244	24	21-250	21-539					63412	12	22-452	7-830	63484	38	6-136	14-544
63173	12	15-235	17-478	63245	26	22-436	21-980					63413	11	25-418	7-273	63485	28	9-906	14-051
63174	8	15-881	17-645	63246	21	22-845	21-550					63414	52	3-016	8-418	63486	13	11-270	14-330
63175	43	15-941	17-912	63247	8	23-088	21-494					63415	13	3-109	8-466	63487	28	11-472	14-212
63176	15	17-285	17-660	63248	32	3-088	22-229					63416	26	4-392	8-688	63488	13	11-764	14-178
63177	8	21-575	17-887	63249	44	5-408	22-405					63417	31	9-244	8-268	63489	23	13-222	14-392
63178	8	22-664	17-870	63250	15	7-136	22-318					63418	20	9-882	8-755	63490	22	18-016	14-006
63179	26	25-426	17-022	63251	39	9-367	22-041					63419	15	10-666	8-882	63491	32	25-758	14-735
63180	29	1-149	18-294	63252	15	12-013	22-020					63420	11	12-280	8-894	63492	27	6-638	15-150
63181	8	1-758	18-240	63253	63	12-250	22-275					63421	19	16-140	8-645	63493	22	10-194	15-068
63182	13	1-946	18-960	63254	29	15-370	22-416					63422	26	19-404	8-183	63494	12	13-586	15-668
63183	17	5-472	18-796	63255	29	17-750	22-306					63423	19	20-334	8-872	63495	28	18-998	15-962
63184	12	6-256	18-146	63256	42	21-823	22-167					63424	43	22-329	8-636	63496	12	22-144	15-148
63185	8	6-777	18-605	63257	31	21-849	22-279					63425	32	23-487	8-378	63497	19	22-564	15-282
63186	18	7-928	18-572	63258	8	23-154	22-050					63426	13	0-733	9-058	63498	26	23-274	15-664
63187	8	10-558	18-008	63259	8	24-265	22-480					63427	22	3-206	9-851	63499	14	0-855	16-357
63188	26	11-392	18-069	63260	8	2-966	23-560					63428	23	6-936	9-641	63500	12	1-860	16-362
63189	13	14-219	18-269	63261	8	3-904	23-044					63429	15	7-776	9-980	63501	14	10-934	16-294
63190	16	15-171	18-314	63262	8	4-042	23-052					63430	15	13-391	9-229	63502	13	14-023	16-146
63191	24	17-076	18-581	63263	15	6-994	23-491					63431	31	16-052	9-566	63503	33	2-318	17-146
63192	16	18-500	18-020	63264	12	9-418	23-444					63432	25	16-715	9-956	63504	31	3-025	17-428
63193	8	18-930	18-146	63265	23	9-928	23-920					63433	38	2-744	10-817	63505	18	3-920	17-850
63194	11	22-650	18-090	63266	12	11-508	23-580					63434	51	3-147	10-620	63506	104	10-560	17-044
63195	22	22-700	18-500	63267	10	12-414	23-384					63435	35	4-384	10-100	63507	33	12-756	17-042
63196	24	23-472	18-742	63268	8	13-644	23-548					63436	13	9-983	10-222	63508	18	16-110	17-770
63197	8	24-821	18-800	63269	9	14-500	23-790					63437	12	12-231	10-072	63509	30	16-592	17-126
63198	9	1-674	19-044	63270	9	14-756	23-232					63438	38	16-099	10-367	63510	70	25-056	17-222
63199	32	2-847	19-812	63271	13	15-971	23-402					63439	38	17-170	10-678	63511	29	25-922	17-556
63200	30	3-790	19-544	63272	25	20-364	23-870					63440	58	18-026	10-218	63512	14	0-256	18-522
63201	46	4-871	19-556	63273	23	21-958	23-216					63441	20	22-381	10-771	63513	20	0-312	18-928
63202	21	12-571	19-390	63274	11	22-670	23-888					63442	23	23-698	10-363	63514	13	5-475	18-355
63203	11	13-024	19-226	63275	10	22-680	23-874					63443	12	0-138	11-859	63515	35	7-350	18-880
63204	15	16-062	19-146	63276	11	0-484	24-214					63444	13	5-906	11-408	63516	13	9-103	18-106
63205	21	18-070	19-539	63277	8	0-619	24-217					63445	14	7-674	11-412	63517	29	11-439	18-280
63206	22	18-659	19-158	63278	41	1-248	24-518					63446	24	9-606	11-510	63518	46	18-060	18-240
63207	26	20-998	19-481	63279	8	7-404	24-494					63447	38	9-824	11-626	63519	16	19-282	18-090
63208	29	25-746	19-180	63280	24	10-179	24-339					63448	17	14-909	11-407	63520	30	22-722	18-643
63209	14	0-104	20-317	63281	35	11-333	24-720					63449	37	16-414	11-351	63521	28	1-086	19-166
63210	35	6-030	20-121	63282	41	12-862	24-908					63450	12	18-773	11-312	63522	33	3-364	19-581
63211	11	6-756	20-683	63283	22	13-488	24-970					63451	70	20-502	11-131	63523	29	9-066	19-691
63212	26	6-874	20-001	63284	8	18-707	24-475					63452	24	21-054	11-438	63524	22	9-222	19-727
63213	63	7-856	20-240	63285	8	20-866	24-824					63453	40	23-816	11-674	63525	33	11-504	19-978
63214	28	10-625	20-634	63286	30	23-522	24-438					63454	43	24-553	11-975	63526	39	12-818	19-426
63215	8	10-634	20-440	63287	10	3-950	25-480					63455	45	1-436	12-972	63527	38	18-456	19-700
63216	8	11-061	20-478	63288	11	4-464	25-045					63456	31	6-813	12-466	63528	39	18-513	19-008
63217	12	11-255	20-508	63289	19	5-156	25-488					63457	11	8-422	12-410	63529	21	21-276	19-732
63218	11	11-528	20-222	63290	28	6-948	25-691					6							

63534	13	3-050	20-362	<b>R.A. 22<sup>h</sup> 0<sup>m</sup></b> Plate 1117; 1917 Nov. 4. <i>Provisional Constants.</i> A B C -02540 +00422 +0651 D E F -00413 -02574 -2855 Mag. = 16.5 - 1.05√d	63656	36	19-516	5-878	63728	9	13-472	13-254	63800	13	10-316	20-888
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63536	25	6-921	20-716		63658	13	19-916	5-171	63730	10	23-433	13-044	63802	17	19-505	20-078
63537	35	15-744	20-403		63659	38	21-354	5-872	63731	13	23-955	13-890	63803	10	21-188	20-300
63538	41	18-393	20-642		63660	11	0-896	6-656	63732	11	0-521	14-998	63804	10	21-196	20-254
63539	12	22-614	20-098		63661	14	1-121	6-698	63733	19	3-710	14-404	63805	13	7-010	21-434
63540	30	22-706	20-573		63662	11	3-260	6-930	63734	20	4-450	14-190	63806	12	7-884	21-064
63541	28	22-855	20-857		63663	14	8-009	6-096	63735	11	11-208	14-070	63807	12	10-890	21-416
63542	21	0-479	21-977		63664	11	13-692	6-450	63736	25	12-198	14-478	63808	15	14-265	21-443
63543	26	5-708	21-904		63665	26	13-896	6-402	63737	23	13-602	14-944	63809	18	15-596	21-604
63544	41	6-662	21-044	No. d x y 63601 35 7-460 0-005 63602 15 11-780 0-476 63603 13 14-320 0-025 63604 17 14-637 0-030 63605 24 14-780 0-880 63606 24 15-945 0-772 63607 22 15-956 0-011 63608 11 20-166 0-222 63609 13 21-836 0-868 63610 11 3-252 1-814 63611 16 4-440 1-088 63612 13 4-574 1-944 63613 17 13-300 1-060 63614 17 14-950 1-624 63615 16 20-222 1-330 63616 13 20-255 1-824 63617 70 21-106 1-000 63618 42 21-366 1-806 63619 22 23-980 1-162 63620 19 0-646 2-892 63621 17 5-332 2-585 63622 12 6-717 2-350 63623 11 12-510 2-718 63624 23 14-892 2-020 63625 10 15-704 2-300 63626 48 15-900 2-250 63627 38 20-221 2-713 63628 52 2-609 3-730 63629 10 5-246 3-319 63630 22 7-936 3-279 63631 27 13-149 3-715 63632 35 18-521 3-218 63633 23 19-184 3-842 63634 21 19-418 3-760 63635 33 22-984 3-240 63636 11 25-697 3-894 63637 13 1-757 4-213 63638 12 5-738 4-983 63639 26 9-799 4-735 63640 25 9-940 4-074 63641 15 11-573 4-530 63642 18 11-922 4-534 63643 17 12-083 4-458 63644 22 18-016 4-075 63645 42 19-780 4-521 63646 49 21-297 4-102 63647 10 1-776 5-182 63648 98 4-300 5-922 63649 12 5-406 5-814 63650 26 7-430 5-236 63651 32 14-865 5-550 63652 10 15-750 5-550 63653 11 16-965 5-176 63654 15 18-690 5-266 63655 18 18-771 5-735	63666	19	19-161	6-826	63738	12	17-472	14-834	63810	22	18-196	21-490
63545	35	9-084	21-032		63667	11	19-980	6-346	63739	10	20-130	14-712	63811	10	25-764	21-254
63546	23	19-134	21-296		63668	21	24-623	6-465	63740	12	22-200	14-366	63812	20	7-246	22-966
63547	29	0-136	22-412		63669	12	0-190	7-146	63741	14	1-238	15-368	63813	18	9-337	22-685
63548	14	1-904	22-896		63670	27	7-344	7-268	63742	10	5-840	15-095	63814	11	12-002	22-544
63549	22	5-494	22-578		63671	9	10-940	7-628	63743	54	9-190	15-836	63815	10	15-800	22-072
63550	28	6-790	22-526		63672	17	11-112	7-710	63744	14	11-240	15-330	63816	14	17-342	22-036
63551	28	8-120	22-472		63673	14	11-752	7-572	63745	15	12-162	15-010	63817	35	20-354	22-885
63552	21	13-378	22-518		63674	19	22-398	7-606	63746	27	12-270	15-174	63818	29	25-922	22-532
63553	31	14-571	22-200		63675	10	22-904	7-114	63747	10	12-370	15-112	63819	15	4-534	23-522
63554	18	15-769	22-290		63676	29	0-186	8-356	63748	10	13-808	15-168	63820	12	6-350	23-649
63555	29	20-222	22-147		63677	16	1-346	8-083	63749	14	15-532	15-808	63821	12	7-330	23-732
63556	13	2-580	23-890		63678	13	4-519	8-701	63750	12	16-270	15-704	63822	21	9-339	23-224
63557	22	4-874	23-078		63679	11	8-380	8-284	63751	21	16-976	15-288	63823	34	9-540	23-206
63558	13	6-361	23-620		63680	12	13-785	8-475	63752	10	17-100	15-288	63824	11	9-798	23-230
63559	13	6-390	23-731		63681	27	21-029	8-665	63753	8	18-252	15-390	63825	14	11-436	23-399
63560	31	6-504	23-422		63682	10	23-591	8-689	63754	11	21-776	15-045	63826	10	12-778	23-555
63561	20	8-820	23-088		63683	9	3-548	9-540	63755	10	22-708	15-167	63827	10	14-698	23-036
63562	24	9-232	23-938		63684	18	6-023	9-191	63756	85	3-634	16-893	63828	13	17-536	23-300
63563	31	11-660	23-570		63685	18	7-307	9-584	63757	12	7-482	16-836	63829	18	18-342	23-490
63564	15	12-204	23-267		63686	28	7-808	9-732	63758	13	11-465	16-004	63830	13	19-184	23-057
63565	13	12-727	23-026		63687	10	8-139	9-616	63759	35	15-226	16-456	63831	12	22-641	23-894
63566	31	13-133	23-634		63688	9	8-836	9-187	63760	25	20-156	16-577	63832	64	22-850	23-728
63567	27	13-224	23-652		63689	10	13-758	9-338	63761	69	20-493	16-100	63833	47	23-846	23-250
63568	14	15-536	23-713		63690	12	14-118	9-075	63762	9	21-085	16-441	63834	56	23-874	23-339
63569	30	17-160	23-328		63691	14	0-267	10-494	63763	39	22-488	16-864	63835	22	0-197	24-256
63570	35	20-918	23-422		63692	14	1-582	10-064	63764	10	24-284	16-260	63836	10	3-414	24-804
63571	17	0-335	24-302		63693	26	5-132	10-274	63765	41	25-176	16-962	63837	11	3-750	24-238
63572	34	1-183	24-862		63694	9	7-905	10-652	63766	19	3-913	17-225	63838	10	4-674	24-812
63573	26	4-306	24-536		63695	20	13-432	10-810	63767	10	4-167	17-900	63839	10	6-658	24-290
63574	33	4-969	24-580		63696	12	15-314	10-893	63768	10	4-634	17-548	63840	22	9-216	24-364
63575	21	7-134	24-306		63697	16	17-728	10-368	63769	15	7-996	17-134	63841	20	10-256	24-209
63576	10	9-136	24-785		63698	26	19-560	10-835	63770	10	19-025	17-936	63842	21	12-662	24-850
63577	30	12-120	24-103		63699	13	22-694	10-993	63771	42	19-464	17-234	63843	9	12-829	24-402
63578	48	15-104	24-812		63700	15	25-180	10-968	63772	24	20-972	17-179	63844	18	16-600	24-872
63579	16	18-186	24-095		63701	27	1-720	11-370	63773	45	25-648	17-998	63845	15	19-309	24-050
63580	26	20-282	24-305		63702	34	2-459	11-665	63774	14	0-726	18-358	63846	116	22-521	24-138
63581	37	22-100	24-536		63703	11	3-140	11-771	63775	10	1-278	18-906	63847	15	23-652	24-140
63582	28	3-646	25-679		63704	11	3-707	11-123	63776	10	3-638	18-767	63848	11	25-034	24-785
63583	22	10-266	25-335		63705	50	5-770	11-337	63777	16	6-423	18-027	63849	26	0-941	25-039
63584	23	11-005	25-060		63706	10	9-262	11-156	63778	21	7-235	18-325	63850	11	1-082	25-071
63585	17	11-630	25-534		63707	11	12-312	11-458	63779	12	12-674	18-699	63851	16	2-062	25-826
63586	33	13-678	25-478		63708	14	19-320	11-226	63780	10	14-549	18-721	63852	14	4-423	25-958
63587	14	14-307	25-758		63709	13	20-462	11-660	63781	11	14-866	18-908	63853	21	4-632	25-306
63588	12	19-674	25-912		63710	12	21-456	11-357	63782	13	18-715	18-626	63854	10	5-390	25-300
63589	33	21-487	25-723		63711	65	1-186	12-384	63783	12	21-700	18-078	63855	12	13-237	25-818
63590	40	22-834	25-328		63712	10	2-284	12-657	63784	10	25-112	18-973	63856	74	13-688	25-851
63591	13	22-974	25-360		63713	17	3-254	12-950	63785	9	3-792	19-807	63857	26	17-574	25-839
					63714	12	3-852	12-818	63786	12	7-263	19-601	63858	13	24-056	25-272
					63715	14	0-586	12-052	63787	12	10-333	19-665				
					63716	13	9-457	12-575	63788	10	11-172	19-270				
					63717	25	10-778	12-816	63789	19	13-980	19-188				
					63718	10	18-402	12-087	63790	27	14-000	19-143				
					63719	13	20-658	12-164	63791	13	17-190	19-273				
					63720	11	22-909	12-163	63792	10	17-376	19-320				
					63721	11	1-516	13-926	63793	11						

R.A. 22<sup>h</sup> 8<sup>m</sup>

Plate 1123: 1917 Nov. 6.

## Provisional Constants.

A B C  
-0.2546 +0.0439 +0.554

D E F  
-0.0423 -0.2580 +0.185

Mag. = 16.0 - 1.05√d

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63903	27	14.056	1.966
63904	23	18.740	1.264
63905	10	3.807	2.797
63906	19	4.632	2.824
63907	16	7.588	2.870
63908	45	11.794	2.299
63909	40	15.413	2.150
63910	13	18.001	2.173
63911	23	23.206	2.575
63912	24	24.268	2.821
63913	33	0.580	3.639
63914	27	17.891	3.405
63915	16	20.340	3.216
63916	12	23.303	3.449
63917	11	3.299	4.264
63918	12	7.040	4.898
63919	18	10.600	4.924
63920	10	12.470	4.826
63921	12	12.940	4.802
63922	12	13.352	4.905
63923	23	13.474	4.202
63924	11	14.568	4.333
63925	24	15.453	4.384
63926	10	16.402	4.198
63927	9	11.627	5.435
63928	17	14.101	5.267
63929	10	16.911	1.158
63930	19	17.076	5.417
63931	24	18.016	5.916
63932	34	20.194	5.931
63933	9	20.677	5.754
63934	18	21.660	5.665
63935	21	2.253	6.845
63936	9	9.282	6.880
63937	13	11.116	6.190
63938	18	13.706	6.210
63939	12	14.894	6.932
63940	14	15.708	6.066
63941	28	18.596	6.705
63942	23	18.674	6.594
63943	12	22.500	6.730
63944	44	22.538	6.566
63945	16	25.745	6.711
63946	18	3.884	7.180
63947	9	15.540	7.061
63948	14	21.728	7.770
63949	19	21.945	7.758
63950	18	22.014	7.999
63951	15	23.774	7.614
63952	17	0.040	8.013
63953	11	3.671	8.386
63954	12	3.862	8.193
63955	17	8.773	8.252

63956	13	8.788	8.272	64028	22	25.554	17.206
63957	10	11.291	8.052	64029	42	3.394	18.366
63958	15	13.655	8.200	64030	27	8.113	18.107
63959	10	14.546	8.869	64031	9	8.601	18.885
63960	34	17.002	8.424	64032	44	10.242	18.746
63961	8	19.772	8.474	64033	24	18.735	18.078
63962	21	23.611	8.108	64034	21	21.441	18.178
63963	24	25.880	8.146	64035	20	21.498	18.159
63964	15	3.804	9.317	64036	14	24.148	18.056
63965	17	6.708	9.584	64037	32	24.428	18.790
63966	20	9.526	9.491	64038	35	25.660	18.260
63967	10	10.122	9.479	64039	16	7.921	19.135
63968	24	12.625	9.428	64040	26	9.540	19.926
63969	27	17.186	9.970	64041	18	9.734	19.455
63970	51	20.630	9.147	64042	18	8.871	20.240
63971	14	22.068	9.332	64043	14	11.202	20.296
63972	13	5.782	10.544	64044	14	16.740	20.728
63973	12	6.812	10.768	64045	35	19.062	20.090
63974	22	13.018	10.176	64046	45	24.113	20.362
63975	14	19.716	10.228	64047	24	25.350	20.777
63976	18	20.140	10.744	64048	18	9.867	21.346
63977	9	21.380	10.480	64049	22	21.378	21.169
63978	13	25.023	10.954	64050	11	21.502	21.525
63979	12	0.372	11.394	64051	32	3.722	22.898
63980	16	4.991	11.258	64052	22	5.504	22.458
63981	11	7.092	11.607	64053	18	10.134	22.966
63982	12	8.194	11.743	64054	54	1.653	23.638
63983	26	11.400	11.540	64055	60	1.678	23.728
63984	13	11.648	11.410	64056	11	2.268	23.303
63985	13	13.154	11.530	64057	26	6.206	23.010
63986	15	14.788	11.834	64058	20	11.516	23.512
63987	12	23.860	11.000	64059	13	12.266	23.758
63988	23	4.277	12.310	64060	49	13.449	23.750
63989	20	4.854	12.907	64061	14	18.660	23.884
63990	14	8.908	12.705	64062	13	18.961	23.120
63991	10	12.095	12.614	64063	13	19.866	23.524
63992	24	18.795	12.626	64064	107	0.332	24.542
63993	35	20.531	12.776	64065	60	0.661	24.128
63994	8	24.293	12.035	64066	18	1.472	24.528
63995	13	25.680	12.720	64067	40	7.774	24.656
63996	9	5.049	13.606	64068	9	7.944	24.733
63997	20	6.426	13.236	64069	11	9.244	24.634
63998	17	10.275	13.959	64070	23	11.048	24.487
63999	11	10.778	13.616	64071	12	15.480	24.822
64000	12	11.092	13.672	64072	22	17.440	24.882
64001	15	14.117	13.770	64073	24	19.061	24.210
64002	13	16.228	13.750	64074	12	19.580	24.528
64003	11	19.821	13.518	64075	16	1.891	25.055
64004	15	22.376	13.995	64076	14	2.858	25.160
64005	13	24.076	13.075	64077	30	12.286	25.147
64006	11	25.000	13.884	64078	14	12.717	25.832
64007	17	1.665	14.276	64079	34	14.385	25.484
64008	13	5.060	14.216	64080	17	18.227	25.352
64009	16	11.228	14.576	64081	16	18.570	25.068
64010	13	12.944	14.284	64082	14	25.228	25.374
64011	18	19.012	14.802				
64012	8	23.270	14.541				
64013	22	12.670	15.508				
64014	17	14.020	15.302				
64015	30	15.862	15.450				
64016	12	17.297	15.882				
64017	17	18.088	16.908				
64018	17	10.786	16.932				
64019	22	17.748	16.493				
64020	33	0.226	17.268				
64021	40	2.915	17.539				
64022	14	6.045	17.580				
64023	20	17.683	17.504				
64024	24	18.054	17.574				
64025	23	19.438	17.685				
64026	11	20.110	17.653				
64027	23	21.851	17.318				

R.A. 22<sup>h</sup> 16<sup>m</sup>

Plate 814: 1916 Nov. 19.

## Provisional Constants.

A B C  
-0.2560 +0.0343 +1.143

D E F  
-0.0340 -0.2604 -1.593

Mag. = 16.5 - 1.05√d

No.	d	x	y
64101	8	11.666	0.846
64102	19	16.035	0.625
64103	22	17.742	0.042
64104	13	20.130	0.115
64105	43	6.415	1.016
64106	45	10.143	1.738
64107	20	10.880	1.430
64108	44	14.177	1.178
64109	37	15.568	1.460
64110	8	15.664	1.500
64111	12	18.190	1.102
64112	11	0.736	2.399
64113	38	0.946	2.496
64114	30	2.010	2.732
64115	13	3.491	2.118
64116	31	7.241	2.551
64117	38	8.374	2.654
64118	19	11.444	2.460
64119	11	15.076	2.094
64120	39	15.578	2.988
64121	12	18.625	2.814
64122	40	19.104	2.805
64123	12	20.330	2.979
64124	9	1.052	3.368
64125	80	7.629	3.177
64126	22	7.650	3.523
64127	24	12.172	3.388
64128	39	12.182	3.244
64129	33	22.632	3.051
64130	37	5.434	4.545
64131	22	8.034	4.397
64132	9	12.528	4.137
64133	9	17.786	4.747
64134	30	20.740	4.036
64135	24	21.952	4.545
64136	15	4.086	5.095
64137	41	7.076	5.406
64138	17	8.857	5.340
64139	10	11.104	5.046
64140	41	12.078	5.719
64141	39	14.768	5.032
64142	40	17.852	5.227
64143	15	0.278	6.662
64144	52	0.310	6.491
64145	23	3.530	6.608
64146	23	5.115	6.356
64147	26	5.973	6.340
64148	18	8.842	6.653
64149	26	18.426	6.736
64150	30	1.560	7.530
64151	31	6.414	7.744
64152	31	6.446	7.734
64153	34	9.942	7.746
64154	8	21.938	7.924
64155	9	21.955	7.593

64156*	46	22.481	7.626
64157	15	23.646	7.098
64158	21	24.357	7.074
64159	37	1.399	8.026
64160	39	3.669	8.045
64161	44	5.694	8.274
64162	10	6.204	8.271
64163	30	6.466	8.134
64164	17	9.036	8.634
64165	30	11.418	8.118
64166	32	13.554	8.486
64167	40	20.822	8.480
64168	10	22.614	8.951
64169	9	8.916	9.588
64170	40	9.488	9.814
64171	40	18.934	9.186
64172*	45	19.922	9.676
64173	40	22.164	9.257
64174	13	25.244	9.040
64175	9	0.610	10.092
64176	16	1.680	10.914
64177	29	2.844	10.857
64178	11	9.027	10.796
64179	8	10.171	10.718
64180	36	11.667	10.610
64181	11	12.758	10.520
64182	9	17.550	10.366
64183	9	24.090	10.686
64184	15	2.122	11.944
64185	14	11.126	11.812
64186	38	14.564	11.623
64187	9	15.842	11.450
64188	10	22.560	11.293
64189	43	24.036	11.476
64190	15	2.815	12.982
64191	21	3.516	12.616
64192	20	4.112	12.904
64193	21	5.495	12.326
64194	10	8.155	12.192
64195*	46	8.712	12.062
64196	8	17.721	12.378
64197	26	18.820	12.994
64198	22	24.232	12.507
64199	51	25.994	12.784
64200	22	0.219	13.922
64201	20	2.847	13.790
64202	28	7.400	13.326
64203	8	8.114	13.422
64204	10	10.501	13.586
64205	10	10.528	13.593
64206	10	16.636	13.540
64207	9	18.544	13.706
64208*	49	21.565	13.626
64209	23	22.066	13.666
64210	14	1.134	14.464
64211	35	15.645	14.866
64212	8	18.154	14.116
64213	38	19.043	14.083
64214	13	22.565	14.265
64215	36	22.613	14.648
64216	9	5.636	15.434
64217	17	6.035	15.566
64218	30	6.336	15.876
64219	8	11.741	15.806
64220	38	14.206	15.943
64221	8	19.886	15.895
64222	32	20.126	15.328
64223	18	21.032	15.766
64224	20	4.776	16.644
64225	21	4.784	16.624
64226	31	5.186	16.916
64227	35	10.085	16.736

64228	24	10.406	16.228	64300	46	12.733	24.285	64391	36	12.244	6.724	64463	30	5.881	15.905	64535	14	11.152	24.177
64229	8	11.571	16.884	64301	27	12.994	24.074	64392	20	12.608	6.329	64464	16	8.150	15.704	64536	28	12.415	24.608
64230	25	11.776	16.966	64302	25	18.296	24.584	64393	22	14.835	6.328	64465	36	11.119	15.494	64537	32	17.482	24.488
64231	22	15.196	16.876	64303	14	19.166	24.006	64394	17	21.294	6.691	64466	39	10.120	15.674	64538	34	22.776	24.842
64232	8	19.514	16.442	64304	11	20.800	24.475	64395	42	0.026	7.717	64467	49	23.714	15.858	64539	70	4.005	25.072
64233	36	19.738	16.056	64305	27	3.192	25.276	64396	15	1.193	7.174	64468	24	25.725	15.418	64540	17	10.200	25.476
64234	22	2.036	17.970	64306	8	5.956	25.242	64397	23	1.962	7.143	64469	12	2.646	16.920	64541	28	11.548	25.417
64235	31	3.420	17.166	64307	10	4.294	25.075	64398	20	5.235	7.524	64470	16	6.120	16.188	64542	30	18.640	25.038
64236	9	5.305	17.244					64399	17	6.698	7.044	64471	28	6.870	16.498	64543	26	18.734	25.150
64237	11	6.878	17.700					64400	17	16.200	7.999	64472	20	7.138	16.694	64544	19	21.202	25.629
64238	8	7.354	17.563					64401	11	17.607	7.956	64473	24	9.094	16.464	64545	21	24.164	25.382
64239	9	17.680	17.244					64402	13	17.784	7.742	64474	17	20.823	16.873				
64240	20	17.974	17.752					64403	13	18.068	7.465	64475	33	24.106	16.984				
64241	11	21.122	17.746					64404	36	19.074	7.086	64476	36	24.588	16.564				
64242	18	21.394	17.164					64405	24	19.897	7.170	64477	18	24.579	16.134				
64243	43	21.758	17.994					64406	16	22.038	7.626	64478	18	11.480	17.479				
64244	8	24.540	17.036					64407	17	4.670	8.480	64479	20	13.414	17.094				
64245	35	2.325	18.700					64408	36	13.935	8.985	64480	26	16.036	17.849				
64246	44	3.550	18.158					64409	26	18.327	8.400	64481	17	19.233	17.956				
64247	24	9.606	18.708					64410	28	19.190	8.494	64482	15	21.308	17.044				
64248	34	12.859	18.594					64411	15	23.085	8.398	64483	27	1.846	18.942				
64249	14	13.390	18.874					64412	28	25.950	8.906	64484	17	2.500	18.134				
64250	41	13.976	18.900					64413	11	0.177	9.036	64485	58	4.010	18.576				
64251	38	16.508	18.904					64414	21	2.866	9.105	64486	13	6.702	18.707				
64252	14	18.067	18.826					64415	58	6.128	9.828	64487	14	9.290	18.392				
64253	16	20.153	18.684					64416	68	8.274	9.930	64488	25	10.126	18.336				
64254	37	24.196	18.869					64417	40	8.300	9.938	64489	11	11.339	18.276				
64255	17	24.854	18.066					64418	28	8.818	9.463	64490	19	12.764	18.518				
64256	21	10.864	19.374					64419	25	13.636	9.742	64491	28	12.776	18.450				
64257	34	13.894	19.322					64420	23	15.568	9.901	64492	23	12.976	18.798				
64258	51	16.644	19.206					64421	26	25.462	9.543	64493	16	15.840	18.686				
64259	30	17.876	19.434					64422	11	1.670	10.737	64494	16	16.448	18.193				
64260	24	18.342	19.487					64423	14	3.200	10.711	64495	16	19.264	18.892				
64261	11	20.969	19.264					64424	34	3.950	10.797	64496	18	3.245	19.460				
64262	18	21.616	19.475					64425	24	5.533	10.373	64497	22	5.248	19.614				
64263	8	23.838	19.472					64426	22	8.660	10.615	64498	20	10.440	19.462				
64264	23	25.887	19.400					64427	22	11.986	10.404	64499	21	16.290	19.966				
64265	52	2.020	20.276					64428	13	12.276	10.842	64500	18	19.597	19.512				
64266	40	3.265	20.680					64429	20	12.312	10.992	64501	17	20.965	19.074				
64267	8	4.552	20.546					64430	26	14.895	10.128	64502	24	2.036	20.520				
64268	21	6.691	20.148					64431	15	16.114	10.715	64503	19	5.814	20.524				
64269	9	8.808	20.804					64432	26	17.603	10.539	64504	20	8.714	20.688				
64270	14	10.474	20.059					64433	34	1.619	11.550	64505	44	8.934	20.057				
64271	11	13.914	20.957					64434	23	5.827	11.758	64506	15	9.473	20.232				
64272	10	15.584	20.152					64435	36	22.986	11.894	64507	18	16.117	20.236				
64273	38	20.453	20.869					64436	15	1.572	12.508	64508	24	16.894	20.528				
64274	8	21.852	20.203					64437	20	1.826	12.580	64509	18	19.618	20.520				
64275	24	24.370	20.449					64438	44	3.585	12.840	64510	24	20.327	20.335				
64276	9	5.504	21.880					64439	41	4.161	12.866	64511	24	0.112	21.550				
64277	40	8.274	21.208					64440	28	4.927	12.060	64512	23	8.420	21.816				
64278	10	10.828	21.546					64441	16	11.556	12.504	64513	16	13.358	21.065				
64279	42	15.410	21.614					64442	22	19.430	12.760	64514	16	16.636	21.356				
64280	34	16.893	21.854					64443	16	21.524	12.950	64515	15	17.900	21.886				
64281	12	22.438	21.403					64444	11	21.774	12.323	64516	24	19.576	21.741				
64282	9	0.976	22.803					64445	60	22.820	12.679	64517	25	21.209	21.710				
64283	30	5.052	22.192					64446	19	24.204	12.626	64518	56	3.422	22.635				
64284	10	5.838	22.609					64447	30	24.576	12.746	64519	22	12.650	22.279				
64285	31	6.776	22.546					64448	29	24.892	12.720	64520	30	13.426	22.808				
64286	29	11.196	22.423					64449	12	3.682	13.432	64521	32	14.217	22.152				
64287	36	14.357	22.383					64450	15	11.914	13.210	64522	20	17.288	22.048				
64288	31	16.853	22.546					64451	20	17.428	13.798	64523	24	17.670	22.698				
64289	34	19.322	22.754					64452	24	25.301	13.288	64524	22	19.329	22.900				
64290	22	20.076	22.658					64453	32	25.799	13.088	64525	16	22.683	22.400				
64291	15	20.944	22.175					64454	28	0.224	14.734	64526	16	6.034	23.908				
64292	56	25.740	22.580					64455	17	0.283	14.837	64527	21	6.498	23.858				
64293	8	1.606	23.523					64456	26	5.444	14.153	64528	18	8.818	23.360				
64294	8	4.384	23.926					64457	36	7.129	14.634	64529	36	14.511	23.260				
64295	21	10.305	23.528					64458	26	10.736	14.924	64530	17	17.391	23.407				
64296	30	14.346	23.066					64459	34	16.275	14.364	64531	24	21.931	23.328				
64297	29	20.818	23.893					64460	30	20.301	14.364	64532	17	25.469	23.884				
64298	16	3.752	24.685					64461	23	22.120	14.007	64533	18	3.344	24.428				
64299	29	7.646	24.816					64462	34	4.654	15.128	64534	23	10.990	24.304				

R.A. 22<sup>h</sup> 24<sup>m</sup>

Plate 1102; 1917 Oct. 14.

## Provisional Constants.

A B C

-02567 +00168 -0193

D E F

-00170 -02564 -1644

Mag. = 16.1 - 1.05√d

No.	d	x	y
64351	28	4.714	0.824
64352	26	13.726	0.716
64353	62	14.300	0.542
64354	31	23.116	0.299
64355	36	4.864	1.885
64356	16	6.946	1.430
64357	19	8.317	1.640
64358	13	15.189	1.777
64359	25	20.136	1.668
64360	16	25.651	1.591
64361	46	5.750	2.329
64362	24	8.591	2.066
64363	14	10.964	2.022
64364	18	12.574	2.888
64365	25	12.740	2.552
64366	38	19.174	2.255
64367	22	21.359	2.170
64368	24	22.776	2.107
64369	11	23.812	2.265
64370	19	24.666	2.622
64371	22	0.140	3.133
64372	28	6.618	3.744
64373	130	4.691	3.795
64374	16	15.176	3.948
64375	16	16.884	3.961
64376	34	7.052	4.971
64377	52	13.132	4.533
64378	36	13.558	4.312
64379	20	24.047	4.321
64380	34	3.648	5.752
64381	37	8.171	5.576
64382	30	16.245	5.693
64383	17	16.910	5.403
64384	17	18.572	5.300
64385	34	19.194	5.133
64386	22	20.652	5.603
64387	38	20.790	5.166
64388	17	24.826	5.767
64389	34	3.844	6.622
64390	18	5.790	6.521



R.A. 22 <sup>h</sup> 40 <sup>m</sup>															
Plate 815; 1916 Nov. 19.															
Provisional Constants.															
$\begin{matrix} A & B & C \\ -02542 & +00212 & -1659 \\ D & E & F \\ -00217 & -02584 & +0170 \end{matrix}$															
$Mag = 16.4 - 1.05\sqrt{d}$															
No.	d	x	y												
64591	35	11	2.856	0.876	64806	13	15.079	7.048	64878	13	22.437	13.512			
64592	66	21.746	4.232	64604	30	20.490	16.622	64807	44	16.273	7.640	64879	9	23.288	13.687
64593	31	12.357	5.739	64605	13	23.258	16.182	64808	10	17.628	7.539	64880	25	24.924	13.255
64594	11	13.713	5.387	64606	34	1.842	17.092	64809	45	19.129	7.835	64881	8	25.104	13.259
64595	22	16.120	5.894	64607	11	3.882	17.529	64810	8	19.163	7.386	64882	50	8.514	14.129
64596	17	22.319	5.083	64608	10	4.084	17.336	64811	8	22.326	7.296	64883	9	9.680	14.960
64597	14	4.498	6.700	64609	12	4.932	17.270	64812	52	22.774	7.090	64884	17	14.943	14.692
64598	13	6.502	6.378	64610	37	5.453	17.792	64813	19	24.742	7.344	64885	8	17.286	14.362
64599	12	19.698	6.944	64611	33	8.644	17.087	64814	16	2.564	8.797	64886	18	2.532	15.407
64600	11	19.268	7.299	64612	12	13.906	17.966	64815	8	5.502	8.604	64887	39	2.611	15.193
64601	10	2.856	8.578	64613	14	18.529	17.280	64816	29	5.906	8.858	64888	9	3.482	15.792
64602	31	3.581	8.992	64614	12	24.649	17.407	64817	19	6.086	8.127	64889	17	3.676	15.640
64603	24	5.680	8.573	64615	14	1.509	18.103	64818	25	10.135	8.244	64890	33	7.228	15.402
64604	31	12.782	8.818	64616	11	5.641	18.764	64819	25	11.625	8.081	64891	10	7.433	15.302
64605	12	19.063	8.964	64617	15	8.018	18.668	64820	8	13.938	8.112	64892	12	9.686	15.358
64606	19	24.590	8.601	64618	13	11.700	18.744	64821	14	15.730	8.192	64893	12	9.686	15.358
64607	21	3.008	9.635	64619	19	15.976	18.528	64822	9	1.036	9.476	64894	11	11.026	15.056
64608	60	7.226	9.930	64620	34	17.202	18.649	64823	8	3.130	9.955	64895	8	11.530	15.462
64609	27	7.276	9.974	64621	39	19.806	18.132	64824	8	4.922	9.420	64896	14	12.306	15.470
64610	15	9.126	9.306	64622	16	24.786	18.014	64825	10	5.176	9.964	64897	9	17.360	15.897
64611	12	13.426	9.162	64623	22	8.320	19.599	64826	10	8.913	9.792	64898	21	21.048	15.137
64612	25	18.287	9.967	64624	15	10.758	19.297	64827	32	13.890	9.928	64899	21	21.878	15.377
64613	10	23.348	9.954	64625	13	11.436	19.665	64828	9	18.378	9.197	64900	10	1.290	16.388
64614	22	10.025	10.480	64626	25	13.711	19.082	64829	19	19.768	9.630	64901	8	3.112	16.566
64615	13	15.102	10.680	64627	34	15.100	19.828	64830	8	20.015	9.207	64902	40	6.963	16.098
64616	25	19.544	10.126	64628	31	20.403	19.216	64831	10	20.299	9.702	64903	8	7.316	16.938
64617	32	22.864	10.738	64629	31	24.216	19.054	64832	20	22.162	9.126	64904	9	12.406	16.734
64618	26	6.344	11.213	64630	34	4.474	20.620	64833	14	22.524	9.130	64905	19	17.418	16.148
64619	28	15.238	11.610	64631	49	5.142	20.196	64834	25	23.088	9.423	64906	37	18.174	16.584
64620	12	18.356	11.882	64632	35	6.628	20.400	64835	8	23.444	9.734	64907	29	24.227	16.750
64621	38	19.020	11.502	64633	35	9.808	20.420	64836	12	24.046	9.354	64908	11	2.694	17.602
64622	24	24.532	11.842	64634	45	10.289	20.236	64837	24	0.853	10.946	64909	9	9.285	17.002
64623	70	0.494	12.809	64635	12	12.148	20.557	64838	9	0.975	10.371	64910	8	11.692	17.970
64624	44	0.652	12.020	64636	29	12.302	20.783	64839	10	4.597	10.296	64911	8	13.546	17.548
64625	14	1.882	12.738	64637	19	15.180	20.691	64840	10	5.516	10.856	64912	10	19.428	17.066
64626	32	2.257	12.852	64638	19	18.598	20.136	64841	10	8.060	10.660	64913	16	22.808	17.118
64627	28	2.572	12.822	64639	12	20.672	20.734	64842	32	10.251	10.524	64914	15	2.834	18.207
64628	44	4.584	12.860	64640	26	7.508	21.250	64843	38	14.807	10.405	64915	28	9.883	18.422
64629	75	8.232	12.888	64641	34	9.304	21.652	64844	9	16.680	10.684	64916	10	10.508	18.414
64630	40	9.207	12.612	64642	50	10.483	21.778	64845	15	18.776	10.689	64917	15	15.878	18.468
64631	31	9.988	12.311	64643	13	17.886	21.996	64846	64	21.892	10.127	64918	8	16.203	18.583
64632	27	17.832	12.767	64644	14	11.065	22.380	64847	8	0.624	11.116	64919	28	16.626	18.645
64633	33	2.988	13.383	64645	19	14.590	22.994	64848	20	4.764	11.932	64920	8	18.694	18.962
64634	32	3.482	13.175	64646	38	17.909	22.339	64849	50	5.740	11.709	64921	10	20.720	18.644
64635	23	10.036	13.580	64647	11	21.406	22.561	64850	12	17.601	11.868	64922	18	22.730	18.476
64636	32	21.868	13.716	64648	23	24.947	22.742	64851	15	20.126	11.101	64923	10	23.702	18.444
64637	19	22.037	13.174	64649	10	3.308	23.974	64852	8	20.693	11.900	64924	28	2.278	19.852
64638	11	4.727	14.456	64650	36	5.152	23.218	64853	8	21.080	11.553	64925	17	5.410	19.707
64639	56	7.833	14.177	64651	52	6.452	23.494	64854	8	21.926	11.406	64926	34	6.406	19.408
64640	31	15.299	14.618	64652	18	10.176	23.348	64855	18	25.292	11.425	64927	13	8.036	19.139
64641	13	21.576	14.642	64653	17	17.183	23.816	64856	22	2.530	12.038	64928	17	11.384	19.776
64642	55	1.435	15.976	64654	10	17.500	23.622	64857	22	10.378	12.050	64929	8	15.242	19.388
64643	28	3.440	15.508	64655	18	17.736	23.618	64858	9	10.483	12.542	64930	52	19.100	19.788
64644	30	5.754	15.788	64656	33	19.540	23.808	64859	16	11.014	12.344	64931	17	19.496	19.389
64645	20	10.160	15.999	64657	17	25.166	23.554	64860	22	13.178	12.092	64932	18	19.500	19.688
64646	11	11.572	15.876	64658	49	25.531	23.738	64861	26	14.449	12.082	64933	10	20.574	19.830
64647	13	12.587	15.728	64659	35	0.625	24.970	64862	16	17.370	12.044	64934	18	23.160	19.572
64648	14	13.508	15.618	64660	26	5.172	24.252	64863	15	18.116	12.665	64935	41	25.824	19.303
64649	21	24.506	15.212	64661	21	6.459	24.160	64864	28	18.564	12.283	64936	10	0.024	20.218
64650	40	24.589	15.000	64662	13	7.964	24.719	64865	18	23.113	12.246	64937	8	2.339	20.611
64651	17	25.048	15.455	64663	12	11.784	24.860	64866	16	0.044	13.388	64938	37	8.643	20.210
64652	39	2.319	16.667	64664	11	16.043	24.290	64867	13	9.919	13.752	64939	9	8.750	20.492
64653	42	6.939	16.495	64665	12	23.687	24.794	64868	14	2.246	13.128	64940	35	9.682	20.247
64654	38	7.105	16.511	64666	11	24.769	24.142	64869	13	3.988	13.798	64941	42	14.779	20.020
64655	51	7.679	16.398	64667	25	5.186	25.352	64870	39	8.696	13.210	64942	23	16.587	20.946
64656	10	8.456	16.650	64668	27	12.370	25.365	64871	9	12.566	13.426	64943	41	19.918	20.552
64657	19	13.003	16.310	64669	22	16.000	25.962	64872	8	12.940	13.294	64944	8	0.295	21.283
64658	12	17.206	16.992	64670	21	21.634	25.449	64873	12	15.033	13.756	64945	31	6.758	21.602
64659	58	17.448	16.242	64671	15	22.458	25.141	64874	8	15.630	13.978	64946	11	8.263	21.623
64660	12	18.201	16.728	64672	31	22.869	25.582	64875	14	18.187	13.724	64947	12	14.704	21.601
64661	26	19.090	16.747	64673	21	23.602	25.288	64876	80	18.582	13.568	64948	8	14.746	21.689
64662	30	19.430	16.949	64674	53	25.021	25.200	64877	40	18.744	13.889	64949	8	15.364	21.438

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64950	20	15°995	21°673	65009	18	2°456	2°892	65081	19	6°653	15°266	65256	16	10°124	8°270
64951	8	18°104	21°492	65010	12	6°443	2°869	65082	15	7°116	15°464	65257	10	15°461	8°512
64952	18	20°354	21°856	65011	21	7°234	2°137	65083	25	11°470	15°430	65258	9	15°906	8°470
64953	21	3°036	22°934	65012	22	9°208	2°282	65084	10	16°172	15°800	65259	36	16°910	8°339
64954	17	4°094	22°096	65013	49	10°238	2°990	65085	28	1°856	16°626	65260	19	18°848	8°590
64955	9	6°098	22°048	65014	14	4°159	3°139	65086	26	5°488	16°261	65261	23	20°680	8°684
64956	8	6°167	22°952	65015	13	7°900	3°653	65087	52	5°871	16°610	65262	27	21°268	8°724
64957	32	6°433	22°008	65016	34	9°104	3°219	65088	32	7°471	16°076	65263	100	23°755	8°000
64958	54	8°964	22°098	65017	12	12°532	3°048	65089	26	16°153	16°476	65264	32	25°122	8°030
64959	18	11°372	22°101	65018	12	16°320	3°577	65090	14	17°354	16°066	65265	38	1°074	9°000
64960	12	12°131	22°178	65019	30	21°064	3°041	65091	17	24°540	16°866	65266	14	1°456	9°949
64961	8	13°486	22°106	65020	22	5°460	4°769	65092	14	0°448	17°010	65267	9	2°040	9°504
64962	26	15°364	22°116	65021	22	9°751	4°240	65093	10	3°594	17°268	65268	18	4°000	9°656
64963	58	16°059	22°170	65022	16	20°634	4°622	65094	18	7°360	17°590	65269	9	7°655	9°326
64964	12	21°132	22°067	65023	25	0°927	5°700	65095	46	12°600	17°120	65270	42	8°660	9°426
64965	8	21°727	22°776	65024	20	6°732	5°442	65096	15	14°139	17°536	65271	8	13°059	9°978
64966	10	3°260	23°744	65025	14	8°955	5°882	65097	20	20°954	17°834	65272	9	14°358	9°230
64967	44	3°624	23°927	65026	19	11°457	5°300	65098	15	22°094	17°370	65273	13	18°522	9°712
64968	12	6°594	23°296	65027	12	15°987	5°340	65099	14	25°290	17°784	65274	32	22°950	9°545
64969	24	7°962	23°668	65028	17	16°820	5°788	65100	15	0°377	18°370	65275	15	24°400	9°640
64970	10	8°706	23°490	65029	15	18°487	5°992	65101	24	13°554	18°631	65276	8	1°046	10°918
64971	31	14°426	23°266	65030	30	19°564	5°535	65102	19	17°836	18°210	65277	14	6°584	10°050
64972	26	15°302	23°606	65031	14	20°399	5°740	65103	15	19°662	18°256	65278	29	6°690	10°798
64973	10	17°680	23°072	65032	50	0°280	6°084	65104	26	21°804	18°300	65279	13	9°119	10°656
64974	8	21°181	23°392	65033	18	20°227	6°948	65105	20	0°820	19°458	65280	8	9°758	10°952
64975	30	23°978	23°544	65034	36	24°254	6°558	65106	45	3°481	19°160	65281	10	10°087	10°816
64976	13	2°868	24°334	65035	16	2°264	7°216	65107	20	11°074	19°152	65282	13	16°570	10°380
64977	10	2°930	24°764	65036	41	15°346	7°380	65108	14	11°872	19°530	65283	60	17°392	10°830
64978	8	3°162	24°896	65037	32	3°826	8°360	65109	47	14°484	19°398	65284	12	17°810	10°660
64979	21	17°188	24°092	65038	19	5°070	8°050	65110	12	18°245	19°477	65285	40	21°418	10°598
64980	31	19°686	24°467	65039	20	9°463	8°262	65111	14	24°377	19°824	65286	18	24°486	10°476
64981	8	21°732	24°674	65040	54	12°471	8°940	65112	23	12°216	20°022	65287	8	0°924	11°852
64982	13	0°507	25°352	65041	10	15°780	8°574	65113	12	21°791	20°166	65288	9	6°720	11°879
64983	24	0°982	25°794	65042	18	18°372	8°984	65114	12	22°218	20°110	65289	28	8°368	11°472
64984	15	1°714	25°492	65043	30	23°241	8°880	65115	23	3°982	21°093	65290	9	9°892	11°960
64985	56	3°124	25°393	65044	29	24°856	8°256	65116	13	4°198	21°826	65291	14	10°650	11°400
64986	8	4°134	25°421	65045	15	0°064	9°024	65117	48	8°230	21°871	65292	30	15°408	11°455
64987	16	6°553	25°501	65046	20	0°636	9°112	65118	27	9°209	21°785	65293	37	18°071	11°639
64988	10	19°423	25°471	65047	10	1°590	9°233	65119	32	13°474	21°703	65294	17	18°180	11°764
64989	8	20°399	25°858	65048	19	4°210	9°312	65120	22	21°113	21°950	65295	22	20°959	11°020
				65049	13	11°620	9°610	65121	22	23°686	21°156	65296	23	25°990	11°610
				65050	19	13°260	9°931	65122	20	4°198	22°818	65297	46	3°722	12°926
				65051	10	15°327	9°529	65123	26	5°100	22°039	65298	10	11°270	12°954
				65052	37	18°037	9°864	65124	18	6°926	22°076	65299	18	16°646	12°650
				65053	13	23°610	9°840	65125	18	16°631	22°610	65300	12	17°237	12°692
				65054	27	4°105	10°492	65126	12	24°308	22°426	65301	22	20°100	12°668
				65055	19	10°429	10°792	65127	39	1°685	23°426	65302	24	2°116	13°456
				65056	40	14°147	10°260	65128	14	7°304	23°984	65303	13	3°598	13°295
				65057	20	2°862	11°288	65129	19	10°770	23°680	65304	12	6°877	13°840
				65058	10	4°234	11°065	65130	14	14°242	23°784	65305	13	10°273	13°679
				65059	11	4°566	11°540	65131	44	20°466	23°022	65306	13	1°630	13°962
				65060	14	20°064	11°296	65132	17	23°503	23°794	65307	36	11°140	13°982
				65061	13	0°690	12°134	65133	20	25°086	23°220	65308	14	11°801	13°702
				65062	10	5°678	12°330	65134	48	25°542	23°026	65309	28	13°108	13°830
				65063	12	12°936	12°420	65135	12	6°775	24°028	65310	11	17°160	13°622
				65064	32	17°560	12°520	65136	10	10°304	24°686	65311	13	18°290	13°909
				65065	19	17°900	12°984	65137	18	20°080	24°528	65312	33	18°342	13°043
				65066	37	25°836	12°850	65138	30	20°934	24°666	65313	8	20°385	13°212
				65067	22	2°518	13°124	65139	28	22°626	24°104	65314	11	20°882	13°664
				65068	11	14°820	13°034	65140	64	0°348	25°906	65315	12	0°670	14°048
				65069	14	15°754	13°330	65141	13	9°030	25°426	65316	29	2°536	14°392
				65070	10	22°770	13°932	65142	31	12°556	25°633	65317	32	7°023	14°063
				65071	14	24°218	13°358	65143	25	12°946	25°448	65318	35	7°030	14°062
				65072	15	25°702	13°219	65144	15	13°924	25°998	65319	13	8°885	14°770
				65073	13	8°226	14°148	65145	14	15°218	25°568	65320	10	9°126	14°914
				65074	18	15°811	14°205	65146	15	18°260	25°844	65321	28	9°672	14°210
				65075	15	19°774	14°849	65147	17	18°365	25°888	65322	23	15°750	14°528
				65076	17	20°324	14°924	65148	16	22°280	25°087	65323	25	16°612	14°057
				65077	22	20°596	14°519	65149	29	22°600	25°419	65324	13	16°900	14°568
				65078	19	24°628	14°300					65325	33	17°399	14°248
				65079	25	4°431	15°660					65326	15	19°497	14°961
				65080	12	6°390	15°281					65327	80	4°058	15°234

## R.A. 22h 56m

Plate 816 ; 1916 Nov. 19.

## Provisional Constants.

$$A \quad B \quad C$$

$$-0.02561 + 0.00530 + 0.1043$$

$$D \quad E \quad F$$

$$-0.00559 - 0.02560 - 0.1081$$

$$Mag. = 17.6 - 1.05\sqrt{d}$$

No.	d	x	y
65201	12	2.410	0.340
65202	45	5.218	0.720
65203*	95	8.498	0.080
65204	10	9.630	0.614
65205	16	11.514	0.660
65206	16	12.540	0.104
65207	25	19.262	0.101
65208	8	25.138	0.247
65209	10	0.770	1.580
65210*	80	2.314	1.676
65211*	84	5.920	1.789
65212*	29	11.292	1.640
65213*	21	12.020	1.946
65214*	58	14.525	1.700
65215	34	19.522	1.976
65216	38	25.732	1.782
65217	29	7.427	2.138
65218	8	10.600	2.033
65219	18	16.822	2.863
65220	11	24.349	2.209
65221	12	0.239	3.295
65222	10	0.409	3.440
65223	40	4.860	3.803
65224	10	5.052	3.878
65225*	53	5.822	3.241
65226	28	9.266	3.156
65227	8	16.316	3.378
65228	32	20.410	3.942
65229	12	1.686	4.656
65230	17	7.903	4.387
65231	10	15.045	4.720
65232*	34	22.136	4.290
65233	13	23.984	4.310
65234*	13	1.630	5.491
65235*	46	6.616	5.286
65236	10	11.130	5.450
65237	23	11.534	5.378
65238*	72	11.570	5.691
65239	25	20.368	5.334
65240	31	20.768	5.638
65241	30	23.938	5.460
65242*	100	24.169	5.892
65243*	44	2.058	6.656
65244	29	10.115	6.846
65245	9	18.760	6.810
65246	10	16.025	6.314
65247	12	19.610	6.166
65248	16	22.837	6.335
65249	26	16.439	7.220
65250	9	17.250	7.066
65251	30	20.566	7.900
65252	12	22.952	7.488
65253*	40	2.684	8.346
65254*	80	6.950	8.488
65255	38	6.976	8.787

65328	29	4-270	15-374	65400	15	1-540	23-897	65466	11	11-782	3-038	65538	23	7-000	18-250	65610	24	5-072	4-088
65329	9	8-050	15-496	65401	27	3-116	23-302	65467	23	15-409	3-447	65539	21	9-459	18-592	65617	8	5-885	4-075
65330	48	13-395	15-940	65402*	64	3-564	23-110	65468	10	17-046	3-004	65540	20	16-207	18-423	65618*	43	8-448	5-062
65331	38	14-166	15-874	65403*	75	4-236	23-401	65469	31	21-030	3-574	65541	21	0-340	19-000	65619	38	10-300	5-064
65332	25	14-468	15-700	65404	12	11-186	23-560	65470	37	22-400	3-628	65542	24	10-130	19-084	65620	20	10-800	5-834
65333	21	2-484	16-960	65405	9	14-360	23-720	65471	26	5-951	4-659	65543	17	16-272	19-003	65621	32	20-152	5-356
65334	9	4-531	16-467	65406	14	16-420	23-138	65472*	45	9-835	4-315	65544	31	20-064	19-590	65622	30	21-336	5-838
65335	13	5-410	16-140	65407	38	17-379	23-382	65473	16	15-158	4-388	65545	13	10-050	20-275	65623	20	24-842	5-552
65336	28	5-515	16-208	65408	10	17-072	23-124	65474	23	21-050	4-586	65546	21	16-808	20-440	65624	21	1-804	6-080
65337	10	8-135	16-820	65409*	60	17-888	23-780	65475	20	1-342	5-622	65547	14	3-559	20-050	65625	35	1-986	6-026
65338	25	9-072	16-542	65410	38	18-926	23-077	65476	23	5-800	5-339	65548	20	4-919	20-933	65626*	44	2-904	6-190
65339	26	17-360	16-480	65411	54	23-677	23-020	65477	21	10-291	5-429	65549	22	6-082	20-960	65627*	61	4-598	6-010
65340	12	22-148	16-896	65412	67	24-985	23-023	65478	15	15-548	5-739	65550	26	7-038	20-246	65628	28	11-050	6-301
65341	22	23-642	16-701	65413	10	25-064	23-367	65479	32	20-416	5-857	65551	24	10-166	20-740	65629	28	11-164	6-672
65342	24	24-573	16-010	65414	38	0-674	24-580	65480*	64	1-566	6-054	65552	14	22-484	21-594	65630	29	0-371	7-400
65343	13	0-940	17-483	65415	12	3-890	24-113	65481	12	17-352	6-747	65553	18	14-330	22-472	65631	22	4-928	7-886
65344	22	3-244	17-866	65416	10	4-508	24-340	65482*	40	20-288	6-146	65554	34	19-050	22-477	65632	22	5-538	7-867
65345	10	5-248	17-190	65417	8	7-049	24-072	65483	42	24-853	6-448	65555	23	22-745	22-278	65633	26	6-862	7-976
65346	28	8-414	17-628	65418	10	8-832	24-260	65484	20	3-424	7-977	65556	20	1-130	23-186	65634	23	15-141	7-234
65347	19	9-380	17-395	65419	55	9-613	24-430	65485	24	9-061	7-587	65557	42	2-449	23-177	65635	38	18-005	7-470
65348	22	13-012	17-014	65420*	65	15-110	24-244	65486*	42	9-069	7-919	65558	20	3-416	23-028	65636	31	1-516	8-120
65349	10	16-622	17-645	65421	23	16-680	24-888	65487	20	12-843	7-792	65559	16	5-890	23-280	65637	35	5-124	8-303
65350	13	18-208	17-694	65422	38	17-070	24-468	65488	20	12-864	7-437	65560	20	9-064	23-119	65638	22	12-862	8-794
65351	21	18-372	17-672	65423	24	19-150	24-980	65489	17	22-296	7-678	65561	20	18-924	23-786	65639	20	2-072	9-759
65352	15	19-710	17-810	65424	18	0-338	25-200	65490	13	22-784	7-228	65562	11	19-134	23-199	65640	34	12-494	9-940
65353	16	20-064	17-760	65425	46	0-660	25-534	65491	17	23-738	7-217	65563	13	19-950	23-495	65641	10	13-827	9-072
65354	53	22-012	17-704	65426	12	1-640	25-712	65492	25	23-922	7-105	65564	60	23-538	23-364	65642	8	18-275	9-478
65355	10	3-886	18-724	65427	56	5-902	25-933	65493*	66	1-159	8-160	65565	12	11-558	24-247	65643	8	18-930	9-184
65356	31	10-851	18-407	65428	21	12-364	25-925	65494	21	2-533	8-186	65566	40	19-950	24-874	65644	30	21-810	9-539
65357	10	12-396	18-642	65429*	110	16-526	25-116	65495	11	7-161	8-294	65567	36	22-475	24-487	65645	20	22-824	9-523
65358	12	14-310	18-820	65430	26	18-562	25-971	65496	19	8-144	8-718	65568	40	5-900	25-016	65646	21	24-750	9-808
65359	46	15-240	18-030	65431	10	19-467	25-924	65497*	34	21-166	8-681	65569	31	23-240	25-082	65647	20	25-420	9-440
65360	10	15-341	18-504	65432	10	21-730	25-200	65498	12	23-340	8-348	65570				65648	11	3-085	10-326
65361	30	17-372	18-550					65499	24	0-364	9-710					65649	8	9-154	10-465
65362	10	18-668	18-857					65500	12	1-822	9-802					65650	47	11-738	10-341
65363	27	22-762	18-504					65501	21	17-686	9-899					65651	8	24-704	10-334
65364	18	22-892	18-842					65502	14	1-906	10-735					65652	8	11-416	
65365	12	23-644	18-353					65503	21	6-543	10-658					65653	45	2-412	11-416
65366	14	2-362	19-918					65504	16	12-473	10-393					65654	34	3-407	11-670
65367	10	3-278	19-720					65505	20	17-063	10-307					65655	43	1-749	11-492
65368	13	6-854	19-720					65506	16	18-348	10-816					65656	21	12-734	11-228
65369	36	12-140	19-868					65507	13	23-952	10-000					65657	18	13-725	11-924
65370	17	15-728	19-270					65508	20	3-144	11-704					65658	14	22-244	11-144
65371	10	19-126	19-218					65509	11	19-278	11-981					65659	31	3-306	12-574
65372	10	23-403	19-078					65510*	39	21-198	11-460					65660	17	10-166	12-627
65373	11	25-593	19-820					65511*	30	21-714	11-084					65661	14	19-377	12-818
65374	40	4-241	20-908					65512*	39	24-292	11-664					65662	36	25-978	12-166
65375	10	6-438	20-980					65513	21	25-250	11-934					65663	11	10-266	13-678
65376	29	7-582	20-400					65514	16	3-075	12-219					65664	47	13-686	13-666
65377	26	8-816	20-561					65515*	41	11-410	12-310					65665	21	13-694	13-258
65378	43	11-152	20-164					65516*	36	14-778	12-594					65666	38	22-918	13-050
65379	10	12-665	20-030					65517	24	25-130	12-838					65667*	46	23-226	13-860
65380	25	15-700	20-620					65518	19	9-624	13-849					65668*	18	24-106	13-048
65381	28	18-187	20-670					65519	20	10-861	13-080					65669	14	24-100	14-040
65382	10	21-394	20-818					65520*	37	14-125	13-598					65670	15	24-149	14-625
65383	25	1-085	21-260					65521	20	16-144	13-037					65671	8	9-779	14-390
65384	38	4-308	21-615					65522*	46	16-390	13-852					65672	15	13-045	14-264
65385	20	6-870	21-394					65523	13	10-117	14-076					65673	38	19-178	14-053
65386	14	10-640	21-710					65524*	43	15-230	14-768					65674	12	5-118	15-164
65387*	55	14-020	21-278					65525	10	17-886	14-742					65675	49	10-991	15-067
65388	33	21-707	21-580					65526	18	24-188	14-886					65676	17	13-800	15-364
65389	46	21-888	21-718					65527	14	24-229	14-873					65677	15	15-667	15-798
65390	12	2-325	22-518					65528	25	9-737	15-716					65678	36	21-526	15-579
65391	10	5-927	22-540					65529	14	9-966	15-814					65679	33	21-760	15-284
65392	12	6-480	22-250					65530	23	17-197	15-779					65680	21	22-546	15-860
65393	23	6-855	22-181					65531	22	20-739	15-449					65681	9	6-836	16-386
65394	18	8-362	22-800					65532	19	10-884	16-864					65682	41	6-708	17-219
65395	17	11-021	22-400					65533	10	15-478	16-562					65683	41	11-632	17-805
65396	19	12-510	22-392					65534	23	7-380	17-741					65684	28	15-056	17-466
65397*	61	13-291	22-356					65535	28	18-570	17-954					65685	31	15-954	17-087
65398	8	14-940	22-650					65536											

65688	12	23° 7' 08"	18° 56' 41"	65755	32	7° 42' 6"	1° 65' 9"	65827*	41	12° 26' 6"	14° 55' 6"	65908	14	10° 9' 85"	2° 06' 3"	65980	32	8° 8' 06"	12° 7' 58"
65689	8	4° 6' 14"	19° 52' 42"	65756	16	8° 40' 8"	1° 35' 5"	65828	14	15° 6' 32"	14° 7' 34"	65909	23	11° 29' 4"	2° 6' 12"	65981	19	8° 8' 66"	12° 0' 68"
65690	14	16° 0' 28"	19° 0' 20"	65757	33	14° 21' 3"	2° 9' 19"	65829*	32	18° 59' 1"	14° 1' 39"	65910	25	12° 15' 0"	2° 4' 38"	65982	21	14° 3' 94"	12° 7' 89"
65691*	78	18° 0' 25"	19° 59' 4"	65758	15	16° 1' 36"	2° 6' 24"	65830	13	22° 8' 22"	14° 2' 66"	65911	27	14° 0' 25"	2° 9' 74"	65983	25	14° 7' 64"	12° 7' 76"
65692	35	23° 7' 74"	19° 4' 10"	65759	9	25° 6' 01"	2° 18' 5"	65831	10	23° 4' 02"	14° 0' 78"	65912	12	14° 3' 42"	2° 3' 64"	65984	14	19° 0' 24"	12° 5' 65"
65693	9	3° 4' 35"	20° 0' 30"	65760*	53	2° 10' 2	3° 6' 40"	65832	12	25° 7' 93"	14° 5' 50"	65913*	65	18° 0' 82"	2° 3' 39"	65985	10	3° 0' 55"	13° 5' 24"
65694	21	6° 7' 78"	20° 3' 58"	65761	33	2° 7' 44"	3° 48' 2"	65833	10	2° 58' 3	15° 9' 46"	65914	14	7° 8' 52"	3° 24' 4"	65986	11	5° 2' 39"	13° 3' 54"
65695	10	9° 7' 84"	20° 40' 8"	65762*	39	3° 25' 8"	3° 80' 9"	65834*	42	9° 48' 0"	15° 4' 18"	65915	32	12° 0' 36"	3° 8' 58"	65987	25	10° 2' 06"	13° 5' 25"
65696	9	12° 8' 06"	20° 4' 62"	65763	8	22° 43' 3"	3° 70' 7"	65835	8	8° 7' 06"	16° 0' 41"	65916	12	12° 8' 18"	3° 5' 26"	65988	12	12° 8' 20"	13° 6' 14"
65697*	58	12° 6' 54"	20° 6' 59"	65764	9	11° 8' 26"	3° 16' 0"	65836*	62	8° 8' 92"	16° 4' 70"	65917	18	20° 8' 27"	3° 7' 02"	65989*	58	23° 4' 16"	13° 9' 65"
65698	15	17° 5' 32"	20° 8' 74"	65765	33	15° 9' 51"	4° 98' 8"	65837	8	9° 29' 0"	16° 9' 37"	65918*	36	2° 6' 07"	4° 6' 22"	65990	18	0° 14' 4"	14° 7' 02"
65699	13	19° 2' 30"	20° 4' 65"	65766	17	19° 7' 76"	4° 42' 2"	65838	16	10° 3' 19"	18° 1' 56"	65919	21	5° 4' 98"	4° 6' 23"	65991	21	0° 6' 58"	14° 1' 78"
65700	23	4° 8' 36"	21° 1' 04"	65767*	30	24° 9' 12"	4° 23' 2"	65839	27	18° 1' 68"	18° 0' 54"	65920	12	7° 7' 07"	4° 5' 12"	65992	9	9° 2' 94"	14° 8' 42"
65701	8	4° 9' 65"	21° 5' 03"	65768*	48	2° 25' 2"	5° 8' 28"	65840	28	19° 4' 70"	18° 6' 02"	65921	23	11° 3' 63"	4° 5' 32"	65993	58	11° 0' 81"	14° 6' 55"
65702	8	14° 3' 26"	21° 5' 95"	65769	15	0° 14' 4"	5° 38' 2"	65841	12	21° 0' 24"	18° 5' 68"	65922	23	21° 1' 40"	4° 6' 21"	65994	20	12° 1' 00"	14° 1' 60"
65703	40	17° 9' 42"	21° 1' 60"	65770	27	9° 8' 19"	5° 7' 30"	65842	23	1° 3' 25"	19° 7' 28"	65923	13	22° 4' 03"	4° 9' 60"	65995*	48	12° 8' 94"	14° 8' 17"
65704	9	21° 3' 62"	21° 0' 36"	65771	13	10° 5' 28"	6° 38' 8"	65843	12	18° 1' 34"	19° 6' 32"	65924	21	23° 3' 05"	4° 0' 82"	65996	20	16° 3' 70"	14° 4' 43"
65705	8	23° 2' 10"	21° 0' 38"	65772	30	12° 3' 46"	6° 03' 4"	65844	31	23° 4' 02"	19° 9' 92"	65925	25	7° 5' 64"	5° 9' 88"	65997	19	16° 7' 38"	14° 4' 54"
65706	9	24° 6' 00"	21° 4' 40"	65773	10	13° 4' 60"	6° 41' 1"	65845	25	11° 8' 78"	20° 3' 67"	65926*	47	11° 5' 08"	5° 6' 20"	65998	18	24° 5' 00"	14° 0' 47"
65707	24	1° 0' 60"	22° 0' 56"	65774	31	14° 0' 78"	6° 13' 8"	65846*	45	12° 6' 00"	20° 0' 32"	65927*	43	16° 9' 67"	5° 5' 82"	65999	22	4° 2' 54"	15° 6' 50"
65708	13	13° 0' 27"	22° 0' 64"	65775	28	14° 1' 62"	6° 17' 8"	65847	27	15° 0' 19"	20° 29' 0"	65928*	56	18° 7' 55"	5° 8' 74"	66000*	50	17° 1' 69"	15° 7' 50"
65709	13	16° 1' 88"	22° 0' 42"	65776	26	5° 2' 66"	7° 7' 74"	65848	22	17° 5' 53"	20° 0' 42"	65929	22	24° 5' 24"	5° 34' 8"	66001	11	0° 34' 8"	16° 9' 38"
65710	29	16° 8' 45"	22° 8' 90"	65777	8	6° 23' 6"	7° 78' 6"	65849	8	3° 34' 6"	21° 6' 85"	65930	13	1° 3' 54"	6° 88' 4"	66002	14	0° 6' 25"	16° 5' 08"
65711	12	19° 8' 14"	22° 8' 87"	65778	33	10° 0' 30"	7° 74' 0"	65850	12	20° 8' 02"	21° 1' 19"	65931	10	22° 7' 08"	6° 28' 3"	66003	11	0° 9' 30"	16° 5' 24"
65712	30	20° 0' 60"	22° 8' 19"	65779	19	20° 3' 84"	7° 40' 8"	65851	11	20° 8' 77"	21° 1' 86"	65932*	44	24° 5' 10"	6° 15' 7"	66004	17	2° 1' 20"	16° 8' 03"
65713	34	20° 4' 37"	22° 0' 10"	65780	31	22° 0' 11"	7° 03' 6"	65852	32	0° 64' 8"	23° 6' 12"	65933	13	24° 5' 10"	6° 47' 6"	66005	27	9° 0' 20"	16° 2' 77"
65714*	79	1° 9' 07"	23° 1' 27"	65781*	34	4° 4' 70"	8° 33' 5"	65853	25	9° 54' 2"	23° 6' 78"	65934	13	25° 9' 56"	6° 85' 4"	66006	34	11° 1' 16"	16° 8' 42"
65715	21	5° 3' 21"	23° 5' 08"	65782	11	17° 7' 80"	8° 31' 6"	65854	21	11° 5' 52"	23° 7' 94"	65935	15	2° 2' 71"	7° 9' 07"	66007	62	11° 4' 36"	16° 9' 80"
65716	27	12° 5' 06"	23° 4' 76"	65783	21	19° 0' 76"	8° 9' 12"	65855	10	12° 2' 78"	23° 9' 08"	65936	12	2° 40' 0"	7° 7' 86"	66008	12	14° 0' 68"	16° 9' 38"
65717	26	15° 9' 38"	23° 0' 45"	65784	16	23° 4' 00"	8° 15' 2"	65856	13	20° 3' 08"	23° 7' 88"	65937	18	8° 1' 66"	7° 3' 76"	66009	14	20° 0' 76"	16° 2' 80"
65718	14	16° 4' 15"	23° 9' 34"	65785	12	2° 8' 76"	9° 7' 12"	65857	30	21° 8' 84"	23° 3' 94"	65938	21	8° 44' 6"	7° 7' 11"	66010	20	21° 44' 6"	16° 3' 89"
65719*	40	16° 5' 49"	23° 2' 88"	65786	30	4° 4' 16"	9° 36' 4"	65858	10	9° 3' 56"	24° 1' 72"	65939	23	9° 9' 16"	7° 26' 0"	66011	15	21° 7' 86"	16° 6' 34"
65720	32	18° 2' 37"	23° 2' 00"	65787	14	4° 7' 26"	9° 15' 2"	65859	20	10° 7' 64"	24° 5' 34"	65940	14	11° 8' 52"	7° 31' 6"	66012	27	22° 8' 98"	16° 2' 78"
65721	40	23° 0' 56"	23° 3' 25"	65788	9	4° 7' 88"	9° 67' 9"	65860	9	21° 9' 32"	24° 5' 54"	65941	14	12° 0' 60"	7° 55' 0"	66013	12	8° 6' 60"	17° 3' 34"
65722	39	0° 8' 68"	24° 2' 70"	65789	11	5° 8' 42"	9° 84' 4"	65861	10	21° 9' 60"	24° 6' 06"	65942	13	13° 8' 22"	7° 15' 8"	66014	29	8° 8' 62"	17° 1' 44"
65723	38	1° 4' 14"	24° 1' 85"	65790*	38	5° 9' 14"	9° 83' 4"	65862*	39	25° 2' 74"	24° 9' 38"	65943*	63	16° 5' 86"	7° 39' 2"	66015	11	9° 3' 66"	17° 6' 80"
65724	8	7° 9' 37"	24° 1' 30"	65791	12	10° 6' 75"	9° 50' 2"	65863*	64	0° 7' 02"	25° 3' 52"	65944	18	24° 5' 96"	7° 51' 2"	66016*	41	15° 39' 0"	17° 8' 87"
65725	8	14° 6' 62"	24° 0' 86"	65792	32	20° 0' 67"	9° 74' 6"	65864	10	3° 28' 2"	25° 3' 06"	65945	20	1° 1' 62"	8° 57' 4"	66017	41	21° 7' 75"	17° 8' 35"
65726	44	19° 1' 40"	24° 0' 12"	65793	26	21° 2' 17"	9° 21' 2"	65865	30	17° 20' 0"	25° 6' 18"	65946	12	10° 8' 00"	8° 68' 6"	66018	26	22° 7' 59"	17° 1' 28"
65727	20	24° 5' 83"	24° 0' 54"	65794	13	0° 5' 34"	10° 9' 26"	65866	25	21° 2' 16"	25° 5' 76"	65947	11	11° 8' 41"	8° 59' 0"	66019	27	23° 9' 04"	17° 0' 26"
65728	10	24° 6' 52"	24° 0' 16"	65795	11	1° 1' 15"	10° 9' 40"	65867	25	25° 7' 36"	25° 9' 00"	65948	17	12° 1' 36"	8° 04' 6"	66020	12	5° 94' 8"	18° 6' 51"
65729	10	11° 26' 4"	25° 8' 15"	65796	13	2° 21' 6"	10° 14' 0"					65949*	17	16° 1' 22"	8° 7' 60"	66021*	51	6° 49' 8"	18° 6' 20"
65730	30	12° 0' 84"	25° 8' 26"	65797	8	6° 6' 28"	10° 29' 7"					65950*	12	18° 9' 03"	8° 1' 66"	66022	39	12° 5' 02"	18° 1' 35"
65731	8	13° 0' 94"	25° 6' 49"	65798*	33	10° 3' 46"	10° 9' 60"					65951*	48	23° 9' 63"	8° 05' 0"	66023	20	25° 8' 20"	18° 0' 66"
65732	11	14° 6' 01"	25° 4' 58"	65799	10	12° 8' 84"	10° 4' 10"					65952	13	3° 0' 31"	9° 8' 12"	66024	12	2° 0' 56"	19° 6' 16"
65733	61	10° 0' 14"	25° 2' 00"	65800	33	13° 1' 84"	10° 5' 59"					65953	24	5° 9' 00"	9° 5' 63"	66025	20	3° 1' 95"	19° 3' 02"
65734	80	23° 1' 86"	25° 0' 64"	65801	30	13° 1' 90"	10° 4' 44"					65954	14	6° 1' 02"	9° 5' 20"	66026	28	5° 1' 70"	19° 7' 17"
				65802	32	19° 1' 30"	10° 18' 3"					65955	11	7° 3' 82"	9° 9' 80"	66027	16	10° 8' 06"	19° 8' 70"
				65803	12	19° 3' 63"	10° 6' 99"					65956	17	8° 04' 6"	9° 42' 0"	66028	13	11° 20' 2"	19° 2' 80"
				65804	19	19° 5' 14"	10° 5' 70"					65957*	39	9° 9' 96"	9° 64' 2"	66029*	55	11° 8' 46"	19° 7' 82"
				65805*	39	25° 5' 39"	10° 3' 58"					65958	13	10° 4' 06"	9° 8' 38"	66030	24	12° 6' 00"	19° 94' 7"
				65806	14	0° 6' 08"	11° 1' 49"					65959	21	12° 4' 74"	9° 9' 54"	66031	28	14° 4' 91"	19° 4' 16"
				65807	11	5° 1' 17"	11° 6' 83"					65960	14	13° 5' 97"	9° 24' 3"	66032	11	20° 3' 74"	19° 9' 20"
				65808	10	7° 9' 12"	11° 6' 46"					65961	12	21° 5' 12"	9° 9' 80"	66033	13	20° 9' 87"	19° 5' 74"
				65809	10	8° 4' 00"	11° 1' 36"					65962	11	1° 4' 62"	10° 6' 42"	66034	20	0° 9' 34"	20° 0' 10"
				65810	8	8° 6' 51"	11° 5' 14"					65963*	44	3° 3' 34"	10° 74' 2"	66035	41	1° 3' 49"	20° 4' 14"
				65811	21	8° 2' 28"	11° 3' 20"					65964	22	4° 0' 96"	10° 86' 3"	66036	11	4° 3' 50"	20° 3' 15"
				65812															

66052	13	11-108	23-062	66134	26	20-520	6-669	66206	28	13-558	22-733	66274	8	7-280	2-778	66346	15	15-216	11-630
66053	17	13-095	23-944	66135	73	1-700	7-942	66207	26	20-980	22-430	66275	12	7-856	2-124	66347	43	15-810	11-639
66054	40	13-825	23-610	66136	20	2-340	7-400	66208	155	21-122	22-213	66276	13	8-946	2-344	66348	8	20-390	11-474
66055	33	15-732	23-722	66137	49	8-690	7-729	66209	30	22-408	22-570	66277	37	9-865	2-290	66349	42	21-378	11-982
66056	16	11-650	24-618	66138	10	13-152	7-644	66210	31	24-353	22-118	66278	9	10-784	2-003	66350	22	22-104	11-284
66057	17	13-603	24-854	66139	27	20-339	7-807	66211	9	3-796	23-900	66279	9	11-076	2-551	66351	13	23-236	11-360
66058	17	15-837	24-543	66140	10	6-800	8-304	66212	12	6-139	23-296	66280	10	15-346	2-854	66352	8	23-008	11-798
66059	14	18-823	24-774	66141	33	15-355	8-017	66213	28	6-860	23-462	66281	21	19-660	2-793	66353	8	1-050	12-664
66060	12	25-950	24-012	66142	32	15-747	8-057	66214	24	8-971	23-668	66282	10	19-720	2-927	66354	8	1-665	12-566
66061	50	3-306	25-322	66143	10	21-700	8-248	66215	29	13-288	23-852	66283	17	23-965	2-144	66355	11	6-272	12-260
66062	35	10-378	25-020	66144	13	25-178	8-512	66216	18	13-952	23-392	66284	10	1-464	3-648	66356	13	16-611	12-455
66063	22	10-892	25-141	66145	10	25-674	8-440	66217	24	14-995	23-566	66285	35	3-885	3-277	66357	8	16-824	12-255
66064	15	17-954	25-565	66146	19	7-150	9-838	66218	19	20-894	23-484	66286	12	6-028	3-492	66358	34	17-798	12-062
66065	60	18-378	25-814	66147	51	16-466	9-050	66219	28	0-916	24-897	66287	21	8-422	3-203	66359	11	19-657	12-632
66066	27	23-158	25-005	66148	31	18-688	9-004	66220	11	6-116	24-362	66288	9	9-355	3-027	66360	11	3-845	13-406
				66149	14	24-949	9-148	66221	11	6-193	24-154	66289	60	10-120	3-699	66361	10	3-878	13-782
				66150	57	0-274	10-065	66222	12	9-680	24-266	66290	35	10-434	3-528	66362	11	4-870	13-324
				66151	20	14-366	10-082	66223	11	17-320	24-950	66291	10	11-763	3-683	66363	10	10-488	13-754
				66152	13	18-620	10-856	66224	18	20-744	24-160	66292	10	16-834	3-821	66364	10	19-721	13-838
				66153	9	1-398	11-700	66225	24	25-130	24-122	66293	49	23-204	3-935	66365	8	20-833	13-082
				66154	25	5-672	11-250	66226	23	7-336	25-010	66294	10	7-099	4-196	66366	8	1-106	14-135
				66155	17	8-438	11-398	66227	12	7-360	25-010	66295	8	7-182	4-157	66367	10	8-725	14-658
				66156	36	15-340	11-674	66228	16	9-949	25-423	66296	10	7-238	4-886	66368	17	13-190	14-210
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				66159	13	5-552	12-830					66299	40	4-721	5-247	66371	10	3-926	15-180
				66160	32	8-270	12-380					66300	10	6-539	5-628	66372	10	5-516	15-787
				66161	27	8-633	12-552					66301	14	7-436	5-130	66373	3	12-264	15-390
				66162	15	17-752	12-211					66302	13	9-339	5-036	66374	23	15-503	15-073
				66163	75	1-158	13-856					66303	38	20-158	5-836	66375	8	20-924	15-244
				66164	11	4-625	13-300					66304	10	25-544	5-054	66376	20	25-234	15-350
				66165	60	12-442	13-421					66305	22	3-848	6-820	66377	15	3-152	16-002
				66166	24	14-070	13-221					66306	14	6-240	6-703	66378	31	3-832	16-637
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				66169	30	4-920	15-768					66309	10	16-621	6-646	66381	15	14-966	16-162
				66170	15	9-628	15-986					66310	8	18-668	6-662	66382	17	16-240	16-012
				66171	11	21-284	15-114					66311	11	2-257	7-270	66383	12	18-143	16-100
				66172	12	24-840	15-236					66312	10	4-450	7-822	66384	10	21-234	16-245
				66173	31	0-648	16-170					66313	10	5-051	7-102	66385	12	22-058	16-567
				66174	12	4-156	16-064					66314	20	10-117	7-020	66386	10	23-798	16-360
				66175	75	7-568	16-517					66315	8	19-153	7-523	66387	10	25-357	16-732
				66176	150	14-353	16-808					66316	20	21-091	7-437	66388	12	25-928	16-886
				66177	83	14-392	16-414					66317	40	4-285	8-830	66389	40	0-141	17-646
				66178	23	25-224	16-046					66318	38	7-203	8-400	66390	12	9-158	17-614
				66179	49	25-896	16-686					66319	10	15-100	8-318	66391	32	10-726	17-654
				66180	30	0-306	17-024					66320	28	15-118	8-135	66392	8	17-170	17-605
				66181	20	1-654	17-816					66321	9	16-141	8-148	66393	10	18-110	17-010
				66182	30	7-566	17-318					66322	12	18-776	8-930	66394	8	18-757	17-186
				66183	9	11-308	17-662					66323	10	20-411	8-143	66395	38	19-577	17-374
				66184	60	22-472	17-664					66324	30	20-642	8-642	66396	13	25-540	17-702
				66185	24	3-373	18-856					66325	8	0-796	9-345	66397	31	0-138	18-043
				66186	20	6-370	18-855					66326	14	2-817	9-108	66398	16	3-325	18-486
				66187	42	22-196	18-056					66327	16	4-966	9-015	66399	21	3-800	18-646
				66188	14	25-374	18-532					66328	20	16-590	9-435	66400	10	5-765	18-746
				66189	26	25-844	18-697					66329	8	20-718	9-086	66401	47	8-345	18-260
				66190	26	4-476	19-030					66330	22	20-926	9-994	66402	10	9-624	18-116
				66191	22	6-088	19-050					66331	22	25-334	9-044	66403	8	10-192	18-496
				66192	105	13-842	19-252					66332	10	1-594	10-337	66404	20	15-588	18-312
				66193	11	19-270	19-740					66333	12	6-884	10-744	66405	25	20-374	18-650
				66194	26	21-574	19-428					66334	12	9-370	10-014	66406	9	20-900	18-454
				66195	17	21-585	19-432					66335	20	18-397	10-854	66407	9	2-060	19-236
				66196	29	9-424	20-815					66336	9	18-920	10-104	66408	9	4-192	19-316
				66197	17	10-912	20-742					66337	20	20-660	10-864	66409	13	4-758	19-081
				66198	40	14-666	20-414					66338	21	21-270	10-850	66410	22	6-184	19-236
				66199	20	14-862	20-275					66339	10	4-402	11-286	66411	10	7-900	19-631
				66200	18	17-016	20-820					66340	8	5-126	11-298	66412	20	11-546	19-762
				66201	13	11-182	21-222					66341	8	5-892	11-086	66413	10	14-990	19-333
				66202	10	25-942	21-602					66342	14	8-436	11-215	66414	9	15-587	19-003
				66203	14	0-881	22-850					66343	18	9-300	11-864	66415	8	17-499	19-112
				66204	10	3-602	22-780					66344	8	11-804	11-520	66416	26	17-738	19-536
				66205	32	7-229	22-976					66345	8	14-364	11-205	66417	58	21-698	19-260



66418	8	3.173	20.270	66476	10	11.188	25.810	66527	8	5.242	3.367	66585	8	3.858	11.502	66643	15	17.924	19.972
66419	16	5.520	20.903	66477	9	11.538	25.064	66528	12	6.330	3.439	66586	11	6.648	11.003	66644	10	18.358	19.533
66420	8	7.376	20.936	66478	27	18.074	25.556	66529	16	7.591	3.100	66587	8	7.681	11.498	66645	39	21.209	19.032
66421	8	8.545	20.092	66479	8	20.636	25.551	66530	12	9.306	3.170	66588	8	12.001	11.654	66646	8	24.980	19.750
66422	8	9.850	20.316	66480	40	21.924	25.515	66531	19	10.064	3.997	66589	9	14.554	11.861	66647	9	5.224	20.133
66423	10	10.848	20.082	66481	84	22.600	25.544	66532	10	19.288	3.446	66590	10	15.568	11.783	66648	11	10.172	20.168
66424	29	16.576	20.504	66482	8	22.662	25.707	66533	33	19.872	3.281	66591	9	19.297	11.988	66649	13	11.344	20.102
66425	28	21.604	20.566	66483	12	24.266	25.784	66534	8	21.482	3.951	66592	8	20.560	11.329	66650	20	16.362	20.800
66426	14	3.924	21.638					66535	54	22.215	3.626	66593	8	23.018	11.788	66651	8	16.945	20.295
66427	9	4.552	21.548					66536	10	7.189	4.258	66594	8	23.032	11.590	66652	10	20.398	20.023
66428	11	7.370	21.080					66537	12	11.294	4.966	66595	8	6.918	12.378	66653	30	21.798	20.909
66429	10	9.310	21.049					66538	10	21.385	4.571	66596	10	14.460	12.402	66654	9	1.801	21.060
66430	10	9.824	21.492					66539	8	22.893	4.800	66597	20	16.440	12.430	66655	13	2.022	21.684
66431	8	9.826	21.659					66540	16	25.084	4.034	66598	8	20.875	12.326	66656	30	3.616	21.440
66432	21	10.452	21.283					66541	12	25.176	4.470	66599	11	5.020	13.631	66657	10	5.576	21.720
66433	12	11.125	21.852					66542	9	3.287	5.026	66600	10	5.952	13.136	66658	13	14.214	21.138
66434	11	12.569	21.026					66543	9	8.928	5.551	66601	14	17.296	13.636	66659	10	17.061	21.436
66435	25	12.945	21.329					66544	19	9.158	5.632	66602	8	21.984	13.577	66660	16	2.717	22.525
66436	34	16.700	21.066					66545	14	9.468	5.175	66603	31	0.744	14.000	66661	36	2.904	22.049
66437	20	18.386	21.430					66546	10	13.450	5.876	66604	16	5.607	14.182	66662	34	3.716	22.345
66438	8	19.350	21.350					66547	11	22.925	5.794	66605	32	7.296	14.425	66663	25	4.900	22.188
66439	43	21.812	21.419					66548	34	23.934	5.152	66606	27	10.020	14.061	66664	10	16.716	22.420
66440	10	23.814	21.064					66549	8	24.812	5.533	66607	21	17.923	14.724	66665	11	23.595	22.710
66441	13	24.023	21.687					66550	9	0.786	6.634	66608	12	23.164	14.266	66666	19	0.744	23.615
66442	34	25.625	21.472					66551	14	6.196	6.166	66609	28	23.440	14.760	66667	20	2.157	23.720
66443	29	0.398	22.554					66552	27	6.650	6.270	66610	9	23.592	14.907	66668	36	3.184	23.279
66444	8	1.420	22.192					66553	10	8.062	6.766	66611	9	3.132	15.326	66669	54	3.689	23.226
66445	25	2.341	22.085					66554	40	19.199	6.523	66612	11	10.111	15.470	66670	8	4.190	23.216
66446	39	5.813	22.819					66555	11	22.571	6.790	66613	14	15.703	15.211	66671	14	6.848	23.432
66447	58	17.382	22.355					66556	13	24.921	6.517	66614	16	19.202	15.667	66672	34	13.486	23.157
66448	10	17.976	22.541					66557	11	4.694	7.250	66615	9	1.714	16.359	66673	11	15.380	23.901
66449	13	24.793	22.542					66558	25	11.607	7.566	66616	9	3.278	16.706	66674	21	16.728	23.790
66450	38	24.903	22.066					66559	30	11.710	7.888	66617	23	7.086	16.559	66675	8	3.049	24.458
66451	40	25.710	22.378					66560	8	13.962	7.053	66618	15	7.116	16.331	66676	21	5.298	24.178
66452	8	6.230	23.114					66561	14	14.540	7.143	66619	49	8.262	16.907	66677	22	9.694	24.634
66453	9	12.880	23.936					66562	32	15.242	7.404	66620	24	9.258	16.505	66678	24	14.098	24.116
66454	15	13.666	23.836					66563	27	15.666	7.602	66621	21	9.324	16.466	66679	12	14.316	24.341
66455	8	14.023	23.635					66564	8	23.382	7.730	66622	24	9.451	16.104	66680	10	16.034	24.490
66456	30	14.953	23.704					66565	13	8.381	8.697	66623	11	15.889	16.020	66681	33	20.146	24.022
66457	11	15.954	23.854					66566	16	9.140	8.746	66624	17	20.292	16.476	66682	14	20.492	24.436
66458	16	16.288	23.536					66567	25	16.976	8.982	66625	25	20.699	16.414	66683	40	20.546	24.820
66459	10	18.616	23.246					66568	8	19.336	8.434	66626	14	1.474	17.702	66684	76	0.648	25.559
66460	23	19.446	23.314					66569	18	19.443	8.090	66627	8	2.626	17.196	66685	14	2.326	25.775
66461	20	22.716	23.600					66570	24	3.137	9.020	66628	29	8.673	17.811	66686	24	6.651	25.819
66462	22	24.125	23.732					66571	12	14.248	9.414	66629	8	12.366	17.686	66687	11	10.136	25.910
66463	50	25.168	23.304					66572	8	15.258	9.027	66630	12	13.339	17.770	66688	14	11.116	25.260
66464	64	25.676	23.255					66573	9	16.180	9.417	66631	18	13.922	17.986	66689	10	11.866	25.130
66465	22	3.136	24.080					66574	31	16.630	9.844	66632	8	14.333	17.646	66690	14	13.588	25.278
66466	10	7.210	24.393					66575	13	25.262	9.348	66633	12	17.154	17.898	66691	43	18.736	25.197
66467	24	8.881	24.780					66576	11	25.920	9.943	66634	12	18.154	17.346	66692	18	19.058	25.332
66468	14	12.123	24.618					66577	10	4.252	10.458	66635	12	19.985	17.962	66693	20	21.944	25.313
66469	16	17.635	24.175					66578	11	7.934	10.194	66636	24	7.453	18.666	66694	23	22.656	25.405
66470	10	17.682	24.038					66579	9	8.653	10.447	66637	17	7.668	18.792	66695	8	24.844	25.256
66471	8	20.240	24.248					66580	36	11.466	10.330	66638	39	10.242	18.088	66696	18	25.247	25.077
66472	14	21.972	24.384					66581	8	13.274	10.851	66639	9	24.873	18.062				
66473	20	4.571	25.464					66582	15	16.437	10.706	66640	10	12.120	19.181				
66474	8	8.392	25.302					66583	13	19.944	10.300	66641	13	15.047	19.120				
66475	10	11.159	25.357					66584	12	1.076	11.367	66642	21	15.612	19.478				

R.A. 23<sup>h</sup> 52<sup>m</sup>

Plate 884; 1916 Dec. 13.

Provisional Constants.

A B C

-0.2560 +0.0419 +3.025

D E F

-0.00404 -0.2587 -2.392

Mag. = 15.7 - 1.05√d

No.	d	x	y
66501	21	4.693	0.856
66502	8	5.750	0.400
66503	8	7.023	0.986
66504	30	11.923	0.074
66505	20	13.398	0.348
66506	22	16.125	0.258
66507	9	24.116	0.339
66508	8	25.060	0.560
66509	30	1.240	1.190
66510	8	4.358	1.494
66511	11	5.326	1.358
66512	9	6.157	1.970
66513	25	8.530	1.451
66514	25	12.132	1.679
66515	13	12.694	1.912
66516	14	13.151	1.510
66517	22	16.110	1.558
66518	12	20.423	1.452
66519	34	25.878	1.718
66520	16	1.668	2.138
66521	18	11.534	2.069
66522	8	13.655	2.966
66523	13	19.976	2.294
66524	14	21.570	2.552
66525	39	0.926	3.946
66526	10	4.903	3.449



NIZAMIAH OBSERVATORY, HYDERABAD

ASTROGRAPHIC CATALOGUE, 1900·0

ZONE  $-18^{\circ}$

STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUES OF THE ASTRONOMISCHE  
GESELLSCHAFT (WASHINGTON AND ALGIERS)

## EXPLANATION OF THE COLUMNS.

*Hyderabad Number.*—This is the number assigned in the preceding Catalogue of measures of plates taken at Hyderabad. Some stars occur on two plates, and in this case they have two numbers, thus, Algiers 19 is Hyderabad  $-18^\circ$ , 134, and also Hyderabad  $-18^\circ$ , 334. Some stars will also occur on plates with centres in  $-17^\circ$  or  $-19^\circ$ . Occasionally, owing to slight errors of centering the plate, a star will fall outside the réseau and hence will have no number on such a plate, but will occur on an adjacent plate with a Hyderabad number.

*Washington or Algiers Number and Magnitude.*—These are taken direct from the Washington and Algiers Astronomische Gesellschaft Catalogues; some stars occur in both Catalogues, in such cases only the Algiers number and magnitude are given.

*Standard Co-ordinates.*—This name was first proposed in *M.N.R.A.S.*, liv. p. 11, and has been generally adopted for the rectangular co-ordinates of a star on a plate fulfilling the following ideal conditions:—

- (i.) Plate truly centred and oriented for 1900.0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

The formulæ giving these co-ordinates are—

$$\begin{aligned}\xi &= k \cdot \tan(\alpha - A) \cdot \sec(\theta - D) \cdot \cos \theta, \\ \eta &= k \cdot \tan(\theta - D),\end{aligned}$$

where

$$\tan \theta = \sec(\alpha - A) \cdot \tan \delta,$$

where

$\alpha, \delta$  are the R.A. and Declination of the star,  
 $A, D$  are the R.A. and Declination of the plate centre,

and  $k$  depends on the adopted unit of length. For the Astrographic Catalogue, the unit chosen is 5' at the plate centre, and  $k=687.54935$ .

For the calculation of  $\xi, \eta$ , approximate formulæ were used, and reduced to tables. To avoid negative signs the constant 13.0000 has been added to the values of  $\xi, \eta$  to form

$$\xi' = \xi + 13, \eta' = \eta + 13,$$

and the quantities  $\xi', \eta'$  are given in the following Catalogue. The co-ordinates are thus referred to a corner of the réseau and not to the plate centre.

The Right Ascensions and Declinations used are those given in the Catalogue for 1900.0 without any application of proper motions.

For determining plate constants, stars known or suspected of proper motion were either omitted from the solution or a provisional proper motion was applied, but no such proper motions have been applied in forming the following Catalogue of Standard Co-ordinates.

-18°.

STANDARD CO-ORDINATES.

0<sup>h</sup> 0<sup>m</sup>—1<sup>h</sup> 4<sup>m</sup>

Reference No.				Standard co-ordinates, 1900-0.					
Mag.		Hyd.		Wash. or Alg.		ξ'.		η'.	
R.A. 0 <sup>h</sup> 0 <sup>m</sup>									
26	W. 8814	9.2	1.3187	5.6252					
6	W. 8815	8.3	3.2867	2.0923					
77	A. 9990	8.7	8.6745	14.1657					
67	A. 9991	5.3	9.0513	11.7164					
71	A. 9992	8.8	10.5365	12.7765					
7	W. 8827	7.4	10.7238	2.0075					
28	W. 8830	8.4	12.3530	5.9225					
109	A. 9997	8.6	12.5326	21.7063					
110	A. 1	9.1	14.7782	21.7520					
3	W. 6	9.2	16.6589	0.7617					
105	A. 3	6.8	16.7071	20.1456					
24	W. 7	9.1	16.8400	4.5349					
85	A. 5	9.1	17.3870	15.2215					
68	A. 11	6.9	19.2734	12.3420					
81	A. 18	6.4	22.8437	14.6263					
134	A. 19	9.0	25.0358	25.6648					
R.A. 0 <sup>h</sup> 8 <sup>m</sup>									
252	A. 18	6.4	0.0336	14.6433					
334	A. 19	9.0	2.3447	25.6569					
225	W. 18	9.0	2.7783	11.2469					
226	W. 24	9.3	4.0473	10.6697					
180	W. 28	9.0	5.0696	5.0655					
289	A. 30	8.7	8.7856	19.3062					
255	A. 31	8.6	9.2880	14.3726					
184	W. 36	9.0	9.9285	5.4391					
290	A. 33	6.0	10.3464	18.0292					
268	A. 36	8.6	12.6089	16.7360					
218	W. 43	9.0	13.3191	9.6883					
219	W. 44	8.2	13.3896	9.8973					
324	A. 40	9.1	14.0525	24.9612					
256	A. 41	8.0	15.3853	14.2176					
327	A. 47	9.0	16.9215	24.8548					
221	W. 49	9.0	16.9319	10.6076					
175	W. 51	8.6	17.0636	3.7393					
210	W. 53	9.1	17.7084	9.5260					
233	W. 59	9.2	18.7477	10.7816					
187	W. 60	8.0	19.2567	4.7475					
282	A. 51	8.8	19.9353	18.6480					
316	A. 55	8.8	22.6871	22.7328					
284	A. 57	8.4	22.9080	18.4599					
274	A. 61	8.9	24.4931	16.8728					
263	A. 62	9.0	24.9358	15.6837					
R.A. 0 <sup>h</sup> 16 <sup>m</sup>									
533	A. 61	8.9	1.7072	16.8718					
523	A. 62	9.0	2.1351	15.6780					
501	A. 64	8.7	3.8809	14.4885					
457	W. 77	9.1	6.1895	8.0531					
525	A. 71	8.3	8.4642	15.8287					
494	A. 74	9.0	10.0575	13.3754					
528	A. 75	7.2	10.0821	16.0691					
539	A. 79	9.0	16.3108	17.4287					
466	W. 90	9.4	17.1706	9.0430					
425	W. 91	8.3	17.8937	2.4666					
435	W. 93	8.8	18.1292	3.7524					
449	W. 97	9.2	18.9286	5.6610					
408	W. 101	8.9	20.8549	1.0938					
426	W. 102	9.2	20.9786	2.4076					
541	A. 84	7.0	21.3281	17.4095					
R.A. 0 <sup>h</sup> 16 <sup>m</sup> (continued)									
450	W. 104	9.2	21.9469	5.6191					
444	W. 105	9.4	22.0425	4.9060					
602	A. 86	7.0	23.7194	25.3220					
591	A. 87	8.9	24.0424	24.2315					
R.A. 0 <sup>h</sup> 24 <sup>m</sup>									
834	A. 86	7.0	1.0247	25.3300					
828	A. 87	8.9	1.3359	24.2349					
730	A. 89	7.1	2.5203	12.7883					
740	A. 92	8.6	3.3633	14.4838					
777	A. 101	8.7	8.2721	17.8152					
653	W. 122	7.9	8.9821	0.5700					
726	W. 123	9.2	9.2894	11.6273					
693	W. 124	9.3	9.4383	7.0480					
711	W. 127	9.4	11.8149	10.3029					
712	W. 129	9.1	13.0695	10.2373					
769	A. 109	9.2	13.4721	17.5332					
713	W. 132	9.0	15.0790	10.1216					
680	W. 139	8.4	19.4274	5.1565					
822	A. 119	7.0	21.6554	22.3022					
816	A. 120	8.5	23.1071	20.0661					
764	A. 123	8.8	24.0807	16.0282					
817	A. 124	8.6	24.4023	21.0323					
805	A. 125	8.8	24.9908	19.8641					
R.A. 0 <sup>h</sup> 32 <sup>m</sup>									
981	A. 123	8.8	1.2857	16.0316					
1020	A. 124	8.6	1.6612	21.0319					
1012	A. 125	8.8	2.2371	19.8573					
1021	A. 128	8.7	3.5016	21.0292					
864	W. 147	9.4	4.1533	3.3102					
874	W. 149	9.3	4.7243	4.3035					
928	W. 150	9.2	6.0641	9.0585					
1038	A. 133	8.9	8.1243	24.7053					
1031	A. 134	8.5	8.1755	22.0522					
865	W. 135	8.0	9.6475	2.4342					
875	W. 137	9.1	9.6976	3.6419					
866	W. 160	9.1	10.3569	3.3206					
977	A. 140	8.7	10.8972	14.9327					
991	A. 142	8.1	12.1837	17.1609					
876	W. 163	8.6	15.4522	3.6541					
1044	A. 151	9.1	18.0838	25.4522					
886	W. 167	8.8	18.2871	4.5564					
979	A. 157	9.0	21.4741	15.5442					
972	A. 158	9.0	22.0867	14.7203					
861	W. 175	7.2	22.9216	1.8001					
877	W. 176	9.3	23.1046	3.6358					
1005	A. 160	8.6	23.5606	18.2605					
948	W. 178	9.2	24.1779	11.1934					
R.A. 0 <sup>h</sup> 40 <sup>m</sup>									
1191	A. 161	9.0	1.3327	11.1971					
1232	A. 164	8.8	4.8069	16.4795					
1127	W. 182	8.7	6.1155	4.0328					
1256	A. 175	2.0	8.9314	19.4300					
1212	A. 182	9.0	12.5083	13.0054					
1184	A. 185	8.9	12.8795	10.3793					
R.A. 0 <sup>h</sup> 40 <sup>m</sup> (continued)									
1252	A. 188	8.9	14.9007	18.2687					
1105	W. 193	7.9	14.9988	0.6525					
1130	W. 194	7.9	15.8274	3.4032					
1187	A. 193	8.8	16.9467	10.0803					
1281	A. 194	8.9	17.7644	21.8341					
1288	A. 197	8.9	18.3327	23.1435					
1266	A. 201	6.0	20.7828	20.3164					
1225	A. 205	8.1	23.6851	14.1351					
...	W. 203	9.0	24.5969	0.2572					
R.A. 0 <sup>h</sup> 48 <sup>m</sup>									
1428	A. 205	8.1	0.8697	14.1429					
...	W. 203	9.0	1.6318	0.2562					
1486	A. 213	8.7	6.4818	25.6111					
1487	A. 216	8.9	8.8809	25.6418					
1393	A. 217	9.2	9.0780	8.4608					
1394	A. 218	9.2	9.5578	8.4260					
1439	A. 226	7.9	13.4755	15.3438					
1456	A. 227	8.9	14.7845	17.7319					
1464	A. 229	8.6	15.9169	19.5466					
1469	A. 230	8.5	16.3516	19.8693					
1359	W. 226	8.8	16.4484	0.7400					
1426	A. 233	8.4	19.0917	12.8321					
1387	W. 228	8.0	19.4301	7.1042					
1488	A. 235	8.0	21.1405	25.9021					
1417	A. 236	8.2	21.2040	11.2181					
1397	A. 241	9.0	24.3548	8.3938					
1381	W. 234	9.4	24.9014	5.1983					
R.A. 0 <sup>h</sup> 56 <sup>m</sup>									
1550	A. 241	9.0	1.4774	8.3946					
1524	W. 234	9.4	1.9895	5.1933					
1526	W. 243	9.2	5.8116	5.1098					
1634	A. 248	8.9	6.6129	19.5545					
1589	A. 250	8.4	6.9629	13.3059					
1676	A. 251	9.3	7.0422	25.6820					
1643	A. 254	8.7	10.2205	20.2201					
1511	W. 249	8.2	10.6075	3.1555					
1552	A. 258	8.7	11.7962	8.3750					
1558	A. 259	8.7	11.9454	8.5245					
1650	A. 260	8.4	12.						



Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.	
<b>R.A. 1<sup>h</sup> 4<sup>m</sup> (continued)</b>					<b>R.A. 1<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 1<sup>h</sup> 44<sup>m</sup> (continued)</b>				
1760	A. 303	8.9	18-0214	9-3185	2472	A. 397	8.9	7-7218	13-8903	2853	W. 468	8.8	20-7340	6-8221
1791	A. 310	8.9	21-1192	13-8367	2480	A. 400	8.2	8-5555	15-4371	2851	W. 478	6.6	24-6220	6-0847
1816	A. 312	8.5	21-7629	17-1585	2403	W. 379	8.9	9-1747	1-3038	2805	W. 479	7.8	25-0699	0-8185
1718	W. 294	9.4	23-7673	2-4119	2416	W. 381	8.3	9-2500	4-4378	2825	W. 481	8.8	25-4056	3-7264
1727	W. 298	9.2	24-7810	3-6440	2483	A. 404	8.4	10-3854	15-5984	<b>R.A. 1<sup>h</sup> 52<sup>m</sup></b>				
<b>R.A. 1<sup>h</sup> 12<sup>m</sup></b>					2423	W. 382	9.3	10-9685	5-4922	3036	W. 478	6.6	1-7197	6-0827
1907	W. 294	9.4	0-8254	2-4189	2474	A. 405	8.4	11-0437	13-5629	3001	W. 479	7.8	2-1108	0-8126
1916	W. 298	9.2	1-8525	3-6412	2476	A. 410	8.6	13-1404	14-5073	3020	W. 481	8.8	2-4777	3-7166
1939	W. 303	9.4	4-8141	6-0354	2456	A. 417	9.0	16-7717	11-7811	3065	A. 504	8.9	2-5811	11-6061
1901	W. 304	9.2	4-9050	0-4473	2533	A. 420	8.6	19-6065	25-0532	3122	A. 507	9.2	5-1910	19-9401
1940	W. 307	9.3	5-9378	5-7484	2457	A. 424	8.9	20-4689	11-9373	3043	A. 508	9.2	5-2782	7-4199
1970	A. 319	8.2	6-9132	10-2390	2452	A. 425	8.0	21-2595	10-7840	3049	A. 513	9.0	10-2842	8-4909
2057	A. 320	8.0	7-6769	21-5104	2468	A. 426	7.2	21-5909	13-4734	3053	A. 515	8.8	10-4411	9-3702
2039	A. 322	9.2	8-7381	18-8275	2512	A. 427	9.1	21-9427	20-1018	3039	W. 499	9.1	10-7270	6-3836
2082	A. 325	8.5	9-6654	24-3273	2446	A. 432	9.1	24-5882	10-5200	3031	W. 500	9.5	11-0788	4-9965
1984	A. 326	8.4	9-8343	11-9604	<b>R.A. 1<sup>h</sup> 36<sup>m</sup></b>					3078	A. 517	8.0	11-5295	14-1602
1911	W. 316	8.9	11-8536	2-8069	2613	A. 432	9.1	1-7338	10-5183	3078	A. 519	8.7	13-0621	18-0225
1920	W. 317	8.9	12-4990	3-8436	2733	A. 433	9.1	2-7308	24-8376	3108	A. 520	7.6	14-3882	14-9848
2059	A. 329	9.0	12-5623	21-1042	2692	A. 435	8.9	3-3265	17-8664	3085	A. 521	8.6	15-3995	15-5190
1960	A. 332	8.0	13-2864	8-3656	2615	A. 436	9.1	6-2120	10-4498	3076	A. 524	9.2	17-4595	13-5007
2001	A. 335	8.1	14-6975	13-7824	2647	A. 439	8.7	8-4248	14-2736	3116	A. 527	8.3	19-5213	19-5693
1902	W. 326	9.2	15-1199	0-6126	2616	W. 413	9.1	8-6663	10-1197	3139	A. 530	9.2	22-7855	21-3327
1962	W. 332	8.2	21-3971	7-7692	2673	A. 441	7.8	8-7935	16-6193	3153	A. 532	9.1	24-6969	23-9478
1945	W. 334	9.3	22-0796	5-5000	2736	A. 442	9.0	9-5548	24-0476	3128	A. 533	8.9	25-1944	20-4871
1946	W. 335	9.3	22-9890	5-6699	2650	A. 443	7.0	9-9804	13-6745	<b>R.A. 2<sup>h</sup> 0<sup>m</sup></b>				
<b>R.A. 1<sup>h</sup> 20<sup>m</sup></b>					2592	W. 416	8.6	11-3280	6-9478	3367	A. 532	9.1	1-9873	23-9439
2174	W. 341	9.4	3-0162	4-2355	2626	A. 446	9.3	12-0069	10-5905	3337	A. 533	8.9	2-4475	20-4779
2286	A. 348	9.0	3-7223	17-8602	2700	A. 455	8.4	15-0305	18-9214	3334	W. 517	9.3	4-3942	6-1689
2263	A. 353	9.2	5-5311	14-8936	2593	W. 423	9.1	15-4995	7-2879	3212	W. 519	7.9	4-8349	1-6321
2152	W. 343	8.4	7-0597	1-0716	2611	A. 456	8.6	16-3424	9-1815	3213	W. 520	9.2	5-5224	1-6143
2159	W. 344	8.2	7-6693	2-0264	2712	A. 458	8.6	16-7328	20-5844	3306	A. 543	8.8	8-8758	15-9658
2289	A. 362	6.4	8-6976	18-4819	2686	A. 459	7.8	16-8835	17-7401	3240	W. 528	8.2	9-1137	7-1794
2338	A. 363	8.2	8-8333	24-5000	2687	A. 461	9.0	18-0484	16-7384	3284	A. 547	6.5	10-5338	12-9268
2351	A. 366	8.7	9-1936	24-9541	2574	W. 426	9.3	19-7913	4-9617	3333	A. 553	8.9	12-6306	18-9719
2156	W. 350	9.1	12-2596	0-5721	2654	A. 464	9.0	20-0878	14-3337	3261	A. 554	6.8	13-0276	10-1950
2323	A. 371	9.0	12-2599	21-8839	2575	W. 432	8.6	23-8643	5-0371	3274	A. 557	9.1	14-8174	11-9905
2280	A. 374	9.0	13-5923	17-2572	2731	A. 471	8.9	24-5054	23-8324	3267	A. 558	8.8	16-2113	10-4781
2193	W. 352	9.2	13-9656	6-1733	<b>R.A. 1<sup>h</sup> 44<sup>m</sup></b>					3289	A. 561	8.7	17-8662	13-1676
2361	A. 375	9.0	15-4146	25-9927	2826	W. 432	8.6	0-9507	5-0431	3297	A. 563	8.8	20-3640	14-3420
2229	A. 376	8.9	16-3871	10-9634	2960	A. 471	8.9	1-7946	23-8312	3349	A. 566	9.0	21-6870	21-3130
2161	W. 360	9.2	17-4492	1-5857	2801	W. 436	9.4	2-9556	0-8047	3230	W. 553	8.7	22-1622	4-7151
2247	A. 377	9.3	17-6645	12-5741	2883	A. 474	9.0	5-5328	12-4081	3363	A. 567	8.8	22-1831	23-1310
2333	A. 379	8.7	19-2368	23-4165	2904	A. 475	9.4	8-4529	14-9916	3208	W. 554	9.2	22-7659	0-2015
2209	W. 361	9.4	20-8657	8-1149	2889	A. 470	7.4	8-5933	7-7999	3291	A. 570	8.7	23-6605	12-4994
2334	A. 381	8.9	20-0135	23-7264	2871	A. 477	7.5	9-6293	9-6123	3268	A. 571	7.6	24-4081	11-4182
2224	A. 384	7.5	22-2201	10-3815	2948	A. 479	8.9	10-2712	20-9192	3292	A. 572	9.0	24-4442	13-3591
2306	A. 388	8.6	22-5050	19-9836	2844	W. 449	9.2	12-8654	5-8548	3308	A. 573	6.4	24-4524	16-0685
2292	A. 389	6.5	24-6589	18-4913	2968	A. 482	8.4	13-1637	23-5241	3221	W. 559	9.0	25-2956	2-5013
<b>R.A. 1<sup>h</sup> 28<sup>m</sup></b>					2914	A. 484	8.9	13-6576	16-1258	<b>R.A. 2<sup>h</sup> 8<sup>m</sup></b>				
2495	A. 389	6.3	1-8905	18-4883	2937	A. 486	8.5	13-9868	18-9034	3504	A. 570	8.7	0-8275	12-5076
2440	W. 369	9.2	2-5443	10-0312	2814	W. 452	9.2	14-3020	2-9140	3495	A. 571	7.6	1-5634	11-4184
2448	A. 391	8.9	3-0789	10-6760	2820	W. 456	9.2	16-0216	4-2362	3524	A. 572	9.0	1-6205	13-3587
2470	A. 395	8.9	6-1721	14-0297	2893	A. 492	9.0	16-5633	12-9333	3533	A. 573	6.4	1-6578	16-0679
2461	A. 396	8.8	7-4821	13-2865	2878	A. 497	9.0	18-6374	11-0874	3418	W. 559	9.0	2-3546	2-4924
					2822	W. 467	8.6	20-6122	5-8120	3447	W. 560	8.1	3-7453	6-2639

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 2 <sup>h</sup> 8 <sup>m</sup> (continued)					R.A. 2 <sup>h</sup> 32 <sup>m</sup> (continued)					R.A. 2 <sup>h</sup> 56 <sup>m</sup> (continued)				
3002	A. 577	9.2	1.0111	22.8314	4184	A. 682	7.9	8.3688	9.7369	4964	A. 802	9.0	6.1205	13.6499
3474	A. 581	8.8	5.8711	9.0430	4221	A. 685	7.5	10.9147	13.8263	4926	A. 803	9.4	8.2815	9.6854
3420	W. 566	9.0	5.9302	3.3010	4112	W. 684	9.3	11.0462	2.2623	4996	A. 804	9.0	9.6335	19.4077
3028	A. 583	9.0	8.1423	25.1155	4104	W. 685	8.1	11.2964	7.9726	4935	A. 805	9.3	9.7044	10.7503
3448	W. 570	9.1	8.4893	5.4905	4105	W. 686	8.6	12.2840	7.7326	4869	W. 790	8.4	10.2813	2.4848
3541	A. 585	9.6	9.6221	15.5714	4106	A. 690	8.8	13.4869	10.9604	4862	W. 792	9.0	11.0298	2.1580
3544	A. 590	7.2	11.0901	15.3793	4113	W. 691	8.8	13.5922	2.2078	4976	A. 814	7.4	14.4173	16.1465
3535	A. 594	9.1	12.5516	13.8661	4104	W. 692	9.1	14.9338	0.6829	4922	W. 794	8.2	15.0272	8.5374
3568	A. 601	8.6	16.2389	18.2243	4166	W. 696	8.6	16.9218	8.0730	4907	A. 816	9.2	15.5239	14.3889
3497	W. 578	8.6	16.4408	13.4068	4203	A. 695	8.8	17.1033	12.5627	5007	A. 819	7.0	17.1159	20.2163
3441	W. 579	8.1	16.8200	5.2080	4273	A. 701	8.9	19.5113	20.5074	4939	A. 820	8.2	17.6009	11.4233
3519	A. 603	9.0	17.0753	11.9092	4249	A. 706	9.2	22.7334	16.8036	4999	A. 823	9.0	18.1636	19.3273
3520	A. 604	9.0	18.0558	11.8430	4199	W. 711	9.3	24.3208	10.6406	5032	A. 825	9.1	19.2191	23.0039
3553	A. 605	8.8	18.0600	16.0755						5009	A. 827	8.5	19.9473	20.4928
3572	A. 606	8.8	21.2068	18.4645						5033	A. 828	8.8	20.1593	23.7979
3599	A. 607	8.2	21.7031	21.4443						4991	A. 829	8.7	20.2831	18.6090
3416	W. 588	8.6	22.3839	19.586						4909	A. 834	7.8	22.6454	14.5654
										4952	A. 841	9.1	25.1347	12.4640
R.A. 2 <sup>h</sup> 16 <sup>m</sup>					R.A. 2 <sup>h</sup> 40 <sup>m</sup>					R.A. 3 <sup>h</sup> 4 <sup>m</sup>				
3075	W. 599	9.2	4.6102	4.9023	4432	A. 707	9.2	1.4692	10.6430	5170	A. 841	9.1	2.3012	12.4562
3670	W. 598	8.5	5.1608	4.1644	4550	A. 711	8.7	2.8418	25.3962	5102	W. 809	7.7	4.0680	0.9685
3790	A. 616	8.9	6.5790	21.0208	4506	A. 712	8.8	3.1241	18.8202	5119	W. 810	9.2	4.7570	3.7468
3670	W. 602	8.9	8.0796	3.1247	4480	A. 713	7.9	3.1446	16.0026	5208	A. 845	9.0	4.7570	3.7468
3778	A. 620	9.1	9.1931	19.4324	4473	A. 723	9.0	7.2271	15.4870	5109	W. 810	9.2	4.7570	3.7468
3844	A. 621	8.4	9.3026	25.3673	4388	W. 722	8.9	8.4689	5.3435	5208	A. 845	9.0	5.2488	15.4216
3779	A. 624	8.3	10.9328	18.6985	4526	A. 729	8.5	8.9685	22.4693	5164	A. 849	8.2	7.3443	11.3455
3794	W. 608	9.2	14.4910	7.8530	4450	A. 730	9.2	10.2005	11.8781	5229	A. 852	8.5	10.0120	17.8585
3685	W. 614	9.0	15.8245	6.0392	4475	A. 733	8.7	13.9010	15.4475	5156	A. 854	9.2	10.9540	9.7739
3745	A. 612	5.9	16.9939	14.1093	4459	A. 734	8.1	14.1004	13.0196	5239	A. 864	8.8	15.8564	18.3601
3652	W. 617	7.8	17.4896	0.5598	4552	A. 735	4.8	14.2275	24.9539	5274	A. 866	9.1	16.0295	22.9610
3805	A. 635	6.1	19.3947	22.6028	4502	A. 742	8.6	18.4245	18.5540	5211	A. 869	9.1	16.9433	15.2167
3795	A. 636	9.1	20.5071	17.1213	4542	A. 743	9.1	18.4783	23.3976	5141	W. 836	9.2	19.4015	7.4049
3716	A. 638	9.1	22.8961	9.2179	4561	A. 748	9.2	20.8556	25.8757	5268	A. 875	8.8	19.5337	21.3849
3787	A. 640	8.6	23.5225	20.1131	4440	A. 749	8.8	20.9267	12.6841	5137	W. 837	9.0	20.3417	6.3325
3730	A. 641	8.9	23.6066	11.8744	4532	A. 751	8.8	21.5564	21.8465	5167	A. 878	9.2	20.4216	10.7629
					4523	A. 752	9.0	22.1367	21.3790	...	W. 842	8.3	21.8681	0.4687
					4533	A. 753	9.0	22.5394	22.1130	5199	A. 881	8.9	22.0334	14.0831
					4377	W. 745	7.9	24.4403	3.7646	5285	A. 882	9.2	22.3026	24.0402
										5103	W. 846	9.4	23.9791	0.9197
										5115	W. 848	8.7	24.4273	2.8685
										5259	A. 886	9.0	24.6699	20.1088
R.A. 2 <sup>h</sup> 24 <sup>m</sup>					R.A. 2 <sup>h</sup> 48 <sup>m</sup>					R.A. 3 <sup>h</sup> 12 <sup>m</sup>				
3935	A. 641	8.9	6.7668	11.8832	4628	W. 745	7.9	1.5129	3.7646	5351	W. 846	9.4	1.0209	0.9246
4002	A. 640	8.6	9.7749	20.4227	4629	W. 749	9.0	3.5257	3.8896	5361	W. 848	8.7	1.4896	2.8685
3869	W. 633	9.2	4.7211	2.8731	4668	W. 750	8.5	3.5636	7.7994	5481	A. 886	9.0	1.9189	20.1055
3870	W. 636	8.8	6.5926	3.2465	4604	W. 752	9.1	4.1028	2.1848	5496	A. 887	8.8	2.6044	22.7993
3905	A. 637	9.0	7.7070	8.3281	4678	A. 762	8.0	4.5801	9.3587	5510	A. 889	9.0	3.1063	24.0161
4044	A. 656	7.8	13.5568	25.7983	4807	A. 766	9.0	5.5362	23.5850	5428	A. 890	8.9	3.1795	13.0825
4033	A. 660	8.3	14.2607	24.7516	4681	A. 775	7.9	10.6488	8.9572	5429	A. 891	8.9	4.0316	12.9329
3916	A. 662	8.8	14.6748	9.4414	4801	A. 778	8.0	11.2075	18.0585	5379	W. 852	8.2	4.5707	5.9149
3893	W. 651	8.6	16.9780	6.0765	4763	A. 779	8.1	12.3662	18.0585	5523	A. 893	8.6	4.7052	25.9726
3895	W. 658	9.5	20.6631	6.1277	4601	W. 763	8.2	13.3385	1.3459	5384	W. 853	9.4	5.6423	6.6662
3087	A. 667	9.1	21.0736	18.1878	4612	W. 764	9.4	14.2395	1.9451	5452	A. 894	8.2	5.8328	15.8833
4038	A. 669	9.0	23.1523	23.9603	4634	W. 766	9.0	18.3956	3.3848	5360	W. 854	9.0	6.2911	1.4628
3892	W. 665	9.1	24.1626	4.6000	4654	W. 770	8.6	22.4626	5.5606	5463	A. 898	9.1	9.3976	16.7769
3998	A. 671	9.2	24.1707	18.8498						5478	A. 900	7.5	9.9262	19.5324
										...	W. 861	8.8	9.9596	0.1054
R.A. 2 <sup>h</sup> 32 <sup>m</sup>					R.A. 2 <sup>h</sup> 56 <sup>m</sup>					R.A. 3 <sup>h</sup> 12 <sup>m</sup>				
4134	W. 665	9.1	1.2443	4.6037	4859	W. 779	8.9	2.9759	1.2965	5369	W. 862	8.2	10.5676	3.3776
4260	A. 671	9.2	1.4061	18.8521	5028	A. 800	9.3	5.2102	23.0857	5493	A. 904	8.3	10.8543	21.8043
4284	A. 673	8.7	2.9618	22.5822	4910	W. 782	9.5	5.2596	8.2186	5485	A. 907	9.0	11.3343	20.2660
4209	A. 675	8.6	3.7811	13.4014										
4286	A. 676	8.8	3.8483	22.4160										
4107	W. 670	9.0	4.1432	1.5632										

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Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 3 <sup>h</sup> 12 <sup>m</sup> (continued)					R.A. 3 <sup>h</sup> 36 <sup>m</sup>					R.A. 3 <sup>h</sup> 52 <sup>m</sup> (continued)				
5500	A. 915	8.9	15.3845	22.0954	6177	A. 1006	8.1	0.7795	23.5900	6782	A. 1151	8.4	14.5868	23.1173
5487	A. 916	9.1	15.4707	20.5982	6078	A. 1007	6.1	0.8114	10.6127	6632	A. 1153	8.9	15.5190	10.8622
5430	A. 917	8.8	15.8839	13.1403	6115	A. 1010	9.1	2.6572	15.4909	6719	A. 1154	8.9	16.6934	18.7608
5431	A. 918	9.0	17.3140	13.0044	6116	A. 1011	8.6	3.3812	15.4881	6720	A. 1156	8.7	17.5243	18.5140
5432	A. 920	9.3	17.8883	12.8824	6093	A. 1015	9.1	5.6428	12.8741	6602	W. 1054	9.1	17.8817	8.9581
5513	A. 921	9.1	18.1247	24.7785	6206	A. 1018	8.6	7.2720	25.8931	6648	A. 1159	9.1	18.4179	12.3970
5514	A. 923	6.2	19.0118	24.0830	6064	A. 1026	7.0	10.3185	9.2729	6682	A. 1160	9.1	18.7619	15.6050
5493	W. 879	8.4	20.9479	10.4642	6005	W. 964	8.8	11.4397	0.5399	6581	W. 1057	9.4	19.9887	7.1943
5422	A. 927	8.8	22.5481	12.0971	6160	A. 1034	9.2	14.1376	21.6157	6751	A. 1163	9.3	20.7717	20.6782
5470	A. 929	8.9	23.2941	17.3936	6121	A. 1035	8.9	14.8248	15.5015	6752	A. 1164	9.1	20.1005	20.7953
5425	A. 931	8.2	24.8344	11.6109	6065	A. 1036	9.1	14.8707	9.2692	6685	A. 1167	8.4	22.3376	15.3811
5366	W. 884	9.5	25.5748	2.6478	6041	W. 975	9.0	16.6505	5.4620	6520	W. 1060	8.6	22.4329	1.9233
R.A. 3 <sup>h</sup> 20 <sup>m</sup>					6048	W. 976	8.0	17.3195	6.5856	6727	A. 1171	9.2	24.4721	17.9422
5645	A. 931	8.2	1.9919	11.6124	6185	A. 1041	9.3	17.5524	22.8788	6559	W. 1063	9.0	24.6195	4.3526
5566	W. 884	9.5	2.6354	2.6360	6050	W. 978	8.8	18.1580	7.0135	6571	W. 1064	8.8	25.2522	5.6999
5575	W. 891	9.1	7.9908	3.5570	6202	A. 1048	8.0	19.3719	25.3785	R.A. 4 <sup>h</sup> 0 <sup>m</sup>				
5632	A. 943	6.8	9.3204	10.5639	6166	A. 1051	8.8	21.2050	20.8780	7027	A. 1171	9.2	1.6978	17.9414
5616	W. 897	9.2	11.4010	8.7941	6154	A. 1058	9.0	24.5043	20.3063	6887	W. 1063	9.0	1.7296	4.4506
5762	A. 946	8.7	12.4808	22.0248	R.A. 3 <sup>h</sup> 44 <sup>m</sup>					6909	W. 1064	8.8	2.3458	5.6920
5769	A. 949	9.1	14.3151	23.9976	6424	A. 1058	9.0	1.7554	20.2990	7027	W. 1065	7.9	3.0246	8.7742
5674	A. 951	8.7	15.8614	13.6062	6399	A. 1060	8.8	3.1112	17.5800	7015	A. 1178	9.4	4.3179	16.4855
5751	A. 954	8.2	17.3685	22.4976	6320	W. 989	8.5	4.6780	6.4860	7016	A. 1179	9.2	4.4873	16.5025
5734	A. 958	8.8	18.8865	19.8877	6266	W. 990	8.6	5.5153	1.7768	7094	A. 1180	8.8	4.8463	22.6061
5619	W. 911	9.2	18.9116	8.6963	6348	A. 1076	9.1	7.7206	10.9258	7030	A. 1181	8.9	5.2824	17.6698
5778	A. 960	9.3	19.3295	24.8656	6350	A. 1080	7.6	10.0832	10.9887	7075	A. 1182	7.9	5.4881	20.7855
5580	W. 913	9.4	19.6156	3.5832	6250	W. 1001	9.1	11.8254	0.8695	6878	W. 1072	9.1	8.4753	3.1142
5779	A. 961	8.9	20.2186	24.8542	6394	A. 1090	8.6	14.0675	16.3186	6868	W. 1075	9.2	10.3464	2.1860
5780	A. 962	8.7	20.5628	25.5415	6395	A. 1091	8.7	15.4392	15.9758	7003	A. 1199	9.0	10.9078	19.8386
5782	A. 967	8.7	24.7109	25.0056	6406	A. 1092	9.0	15.5081	17.2393	7037	A. 1201	8.9	11.3785	17.9870
5749	A. 968	8.5	24.7496	21.7148	6342	A. 1093	9.2	15.5813	10.1663	6871	W. 1083	9.4	13.7828	2.4383
5740	A. 969	8.9	24.7832	19.9322	6260	W. 1006	9.2	15.6090	0.3216	7006	A. 1210	9.0	14.1689	15.7063
5641	A. 971	8.9	25.1481	10.9508	6428	A. 1096	8.5	15.8691	20.1956	6872	W. 1085	8.9	14.9022	2.2900
R.A. 3 <sup>h</sup> 28 <sup>m</sup>					6273	W. 1009	7.8	17.0234	1.9487	6915	W. 1086	9.2	15.3340	6.8230
5968	A. 967	8.7	2.0127	25.0015	6261	W. 1010	8.2	17.7236	0.2852	6981	A. 1215	8.9	17.6319	14.2203
5941	A. 968	8.5	2.0150	21.7105	6460	A. 1101	7.7	17.9044	25.5992	6985	A. 1216	9.5	17.7877	14.2421
5938	A. 969	8.8	2.0303	19.9277	6262	W. 1011	8.3	18.6086	0.8662	7021	A. 1220	7.0	19.0744	16.8463
5879	A. 971	8.9	2.2083	10.9431	6325	W. 1017	8.6	21.6240	6.6610	7012	A. 1226	8.9	20.0112	15.8007
5908	A. 973	9.0	3.1217	15.5750	6316	W. 1018	9.0	22.1712	6.2622	7041	A. 1228	9.2	20.6451	17.5552
5914	A. 974	8.9	3.8076	15.9338	6380	A. 1107	9.0	22.4144	14.3453	6863	W. 1095	9.0	20.9451	2.6678
5820	W. 918	8.7	4.3142	5.1321	6458	A. 1109	8.9	23.3271	23.5314	6894	W. 1097	9.0	21.9227	4.5441
5969	A. 977	9.1	4.8270	25.8230	6353	A. 1111	8.6	23.6806	10.9717	6856	W. 1099	9.1	23.6806	0.4341
5821	W. 920	9.0	5.5519	4.5811	6295	W. 1022	9.0	24.3871	3.6691	6917	W. 1100	8.8	23.9393	7.2305
5909	A. 981	8.8	7.2325	15.5586	6319	W. 1025	9.3	25.3781	5.6423	7092	A. 1235	9.0	24.8648	22.0192
5950	A. 984	7.3	8.1485	22.6002	R.A. 3 <sup>h</sup> 52 <sup>m</sup>					6980	A. 1236	8.9	25.0454	13.1134
5841	W. 924	8.9	8.6206	7.1105	6626	A. 1111	8.6	0.8401	10.9826	R.A. 4 <sup>h</sup> 8 <sup>m</sup>				
5861	W. 927	9.0	8.8379	0.4683	6536	W. 1022	9.0	1.4581	3.6101	7151	W. 1099	9.1	0.7174	0.4418
5925	A. 986	8.9	8.9716	18.4234	6562	W. 1025	9.3	2.6710	5.6321	7219	W. 1100	8.8	1.6495	7.2415
5812	W. 928	7.2	9.6432	2.4436	6730	A. 1115	8.9	2.6417	18.9120	7301	A. 1235	9.0	2.1345	22.0137
5842	W. 929	9.1	10.1280	7.1010	6762	A. 1117	6.6	2.9463	22.1135	7292	A. 1236	8.9	2.2187	13.1065
5951	A. 987	8.7	10.9245	22.8810	6755	A. 1120	6.9	3.6951	21.8028	7331	A. 1238	8.6	2.5066	15.5483
5815	W. 932	9.0	13.7531	2.6136	6733	A. 1126	8.9	6.7898	19.4365	7276	A. 1242	8.3	3.0938	11.5390
5952	A. 994	8.7	14.5517	22.0244	6703	A. 1128	8.7	7.2442	17.3971	7159	W. 1104	9.4	3.1955	1.6799
5817	W. 937	9.0	15.7387	4.3936	6594	W. 1034	8.8	7.9551	8.8285	7253	A. 1247	8.3	4.4393	9.8881
5855	W. 946	9.2	22.4808	7.5891	6613	A. 1133	8.6	8.0221	10.1601	7254	A. 1248	8.4	4.6297	10.2044
5837	W. 947	8.2	23.2324	5.9752	6551	W. 1036	8.5	8.0931	4.6483	7177	W. 1110	9.0	4.7774	2.8034
5868	W. 948	9.6	23.3881	8.7625	6524	W. 1040	9.0	9.8812	2.7585	7411	A. 1251	8.4	6.1077	24.6893
5965	A. 1006	8.1	23.4930	23.5801	6656	A. 1141	8.3	10.7649	12.8931	7210	W. 1116	9.0	7.8631	5.8531
5876	A. 1007	6.1	23.6648	10.6045	6658	A. 1150	9.0	14.0408	13.3200					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 4 <sup>h</sup> 8 <sup>m</sup> (continued)														
7297	A. 1255	8-7	7-9309	13-4550	7867	A. 1371	7-1	11-5915	13-7612	8573	A. 1494	8-7	14-9999	17-1650
7381	A. 1258	8-1	9-0860	21-2339	7811	W. 1226	8-8	12-9786	8-4902	8435	W. 1306	8-6	16-1989	7-0006
7178	W. 1122	9-2	9-5603	2-3104	7934	A. 1375	8-1	11-1187	21-3475	8525	A. 1499	7-9	18-7044	13-0730
7392	A. 1260	9-0	10-0056	22-3582	7965	A. 1379	9-0	10-6134	24-4786	8590	A. 1500	9-1	19-3806	18-1170
7230	W. 1120	6-8	11-5663	7-3700	7858	A. 1381	8-9	18-1123	13-0865	8377	W. 1314	8-8	19-8744	2-5871
7324	A. 1294	8-1	11-6068	14-5218	7758	W. 1235	9-0	18-1588	1-9496	8612	A. 1502	7-3	19-8836	19-9578
7342	A. 1295	8-7	11-8163	16-9926	7814	W. 1237	9-0	18-8860	7-6169	8378	W. 1315	8-9	20-1409	2-6433
7374	A. 1299	8-6	12-5625	20-0219	7882	A. 1386	8-9	20-1947	15-0623	8423	W. 1317	8-5	20-9752	6-1148
7415	A. 1279	8-6	13-8942	23-8314	7759	W. 1243	8-3	20-2172	2-2655	8379	W. 1318	8-8	21-1132	2-7023
7107	W. 1129	9-4	14-0749	1-2384	7830	A. 1394	8-6	23-4597	10-1862	8381	W. 1319	5-5	21-9244	2-4280
7168	W. 1131	8-9	15-2077	1-7223	7968	A. 1395	8-6	24-0023	24-6491	8390	W. 1322	9-3	22-4825	4-0886
7200	A. 1375	8-5	16-0420	9-7287	7806	W. 1250	7-9	24-3452	6-7920	8392	A. 1510	8-7	24-0545	18-2147
7345	A. 1277	8-1	16-7293	16-7021	7848	A. 1397	7-9	24-4742	12-4707					
7204	A. 1278	9-0	17-0753	10-0714	7899	A. 1398	8-9	24-7276	17-2259					
7287	A. 1281	9-2	20-5303	12-4684										
7185	W. 1146	8-9	21-5388	2-8311										
7317	A. 1287	9-2	21-9335	16-6679										
7406	A. 1288	6-9	22-4697	23-7074										
7379	A. 1289	8-8	22-8509	20-1223										
7316	A. 1293	7-6	23-9370	14-5118										
R.A. 4 <sup>h</sup> 16 <sup>m</sup>														
7597	A. 1293	7-6	1-1256	14-5169	8318	A. 1395	8-6	1-3004	24-6528	8962	A. 1510	8-7	1-2831	18-2184
7192	W. 1155	9-0	2-8330	4-6978	8003	W. 1250	7-9	1-4506	6-7930	8785	W. 1327	9-0	2-3099	3-8717
7527	W. 1156	8-8	3-1733	9-3584	8173	A. 1397	7-9	1-6499	12-4701	8798	W. 1328	8-2	3-0202	4-6834
7451	W. 1159	8-6	5-1414	0-7453	8223	A. 1398	8-9	1-9455	17-2221	9957	A. 1520	7-5	8-3023	25-8446
7482	W. 1161	9-2	5-5498	3-5795	8092	W. 1254	8-7	5-0745	9-1927	8991	A. 1521	9-1	9-0591	21-3175
7493	W. 1162	8-1	5-9124	4-7130	8236	A. 1408	7-5	5-7949	17-7149	8970	A. 1523	8-7	9-7673	19-1684
7594	W. 1166	9-0	7-2224	6-0888	8293	A. 1409	9-0	5-8381	23-5679	8755	W. 1346	8-6	11-0034	0-5225
7579	A. 1310	8-3	8-1287	12-4249	8019	W. 1256	8-4	7-2820	2-3309	9015	A. 1528	9-0	13-4434	23-1058
7600	A. 1312	7-9	8-8432	14-1268	8058	W. 1257	8-7	8-0149	1-2076	8768	W. 1351	8-6	13-4490	1-3970
7469	W. 1173	9-2	10-8273	2-2582	8095	W. 1259	9-1	8-7138	8-9072	8943	A. 1532	8-9	16-6505	16-2859
7682	A. 1313	7-9	11-1402	22-1501	8101	A. 1425	9-4	11-9463	14-0330	8776	A. 1533	8-6	14-6859	2-5724
7478	W. 1175	9-0	11-2615	3-1253	8310	A. 1426	8-9	12-0005	24-1625	8900	A. 1538	8-7	16-1444	12-9010
7532	W. 1176	8-9	11-2900	9-4533	8100	W. 1260	7-9	12-5836	8-7700	8863	W. 1356	8-7	17-3829	9-8157
7590	A. 1316	8-2	13-2661	12-7473	8057	W. 1261	9-4	12-7743	5-6360	8778	W. 1358	8-0	17-6768	2-8842
7470	W. 1183	7-6	13-5686	1-8265	8263	A. 1429	8-8	13-7716	19-8873	8944	A. 1542	9-1	17-8299	16-1660
7534	W. 1184	8-8	13-7164	9-3787	8103	A. 1430	8-8	13-8166	14-0595	8809	W. 1362	9-0	19-1024	4-3067
7488	W. 1188	9-1	15-7065	3-8277	8122	A. 1431	9-0	14-0338	10-0210	8890	A. 1548	8-6	21-9247	12-1120
7723	A. 1329	8-9	17-2751	25-6146	8255	A. 1438	7-0	16-7264	19-3776	9004	A. 1549	9-3	21-9110	21-7727
7489	W. 1193	9-0	17-8368	4-3753	8104	W. 1270	8-4	16-8020	8-4443	8833	W. 1372	9-2	23-0776	7-1073
7617	A. 1332	8-9	18-8469	15-3082	8176	A. 1439	7-2	17-6227	13-1946	8810	W. 1373	9-2	23-2553	4-6029
7555	A. 1349	8-7	21-9148	10-3915	8004	W. 1273	8-2	17-7968	0-1055	8891	A. 1553	8-0	23-7766	11-7595
7901	A. 1347	8-9	23-3963	22-1805	8326	A. 1443	8-8	18-9084	25-4315					
R.A. 4 <sup>h</sup> 24 <sup>m</sup>														
7941	A. 1352	8-9	4-1042	22-1734	8300	A. 1446	8-8	19-4954	23-5134					
7786	W. 1205	8-4	4-4735	5-9518	8029	W. 1284	8-0	22-3161	2-9325					
7795	W. 1209	9-2	5-7107	6-4694	8230	A. 1455	8-8	22-7582	16-6882					
7804	A. 1355	8-6	5-9899	14-1233	8259	A. 1458	9-0	23-6146	18-8829					
..	W. 1211	9-2	6-7232	0-2039	8169	A. 1460	8-2	24-3501	11-5699					
7928	A. 1361	8-1	8-3734	20-3016										
7948	A. 1362	7-2	8-5888	23-8666										
7803	A. 1365	9-1	9-1724	13-7608										
7766	W. 1217	9-3	9-7941	4-2793										
7780	W. 1218	8-2	10-2315	5-0104										
7807	A. 1369	8-4	11-1066	16-8880										
7854	A. 1370	8-7	11-1704	12-7571										
R.A. 4 <sup>h</sup> 24 <sup>m</sup>														
7941	A. 1352	8-9	4-1042	22-1734	8594	A. 1458	9-0	0-8505	18-8984	9265	A. 1553	8-0	0-9356	11-7665
7786	W. 1205	8-4	4-4735	5-9518	8500	A. 1460	8-2	1-5071	11-5707	9333	A. 1558	8-0	3-3666	16-2510
7795	W. 1209	9-2	5-7107	6-4694	8491	A. 1465	8-9	3-9872	10-7628	9380	A. 1559	8-8	3-4284	19-6158
7804	A. 1355	8-6	5-9899	14-1233	8357	W. 1294	9-0	6-9110	2-1455	9408	A. 1561	8-4	3-9127	21-2228
..	W. 1211	9-2	6-7232	0-2039	8544	A. 1471	8-6	8-1019	14-5950	9368	A. 1564	8-7	5-0368	18-2722
7928	A. 1361	8-1	8-3734	20-3016	8545	A. 1472	8-7	8-4849	14-8088	9193	W. 1386	9-3	5-1040	6-5045
7948	A. 1362	7-2	8-5888	23-8666	8519	A. 1473	8-8	8-5028	13-1915	9397	A. 1565	8-9	5-5699	20-5201
7803	A. 1365	9-1	9-1724	13-7608	8445	W. 1302	8-7	11-3352	8-2441	..	W. 1390	7-2	6-3950	0-2168
7766	W. 1217	9-3	9-7941	4-2793	8651	A. 1484	5-5	12-1965	23-2271	9270	A. 1568	6-5	8-1832	12-5245
7780	W. 1218	8-2	10-2315	5-0104	8682	A. 1488	8-8	12-8118	24-9665	9336	A. 1569	8-9	8-3822	16-5321
7807	A. 1369	8-4	11-1066	16-8880	8683	A. 1489	8-5	13-0700	25-0345	9484	A. 1571	9-0	8-6181	24-9581
7854	A. 1370	8-7	11-1704	12-7571	8699	A. 1490	8-5	13-3908	25-9815	9436	A. 1576	8-1	11-1837	22-6791
					8446	W. 1395	8-9	14-6341	7-8151	9472	A. 1579	8-8	11-6896	24-6825
										9106	W. 1407	9-2	13-0062	1-1494
										9245	W. 1409	8-4	13-8358	9-7865
										9387	A. 1587	8-5	15-4978	19-1570
										9232	W. 1411	8-0	15-5046	9-4337
										9292	A. 1592	9-1	16-1844	13-4761
										9404	A. 1598	8-8	18-9983	20-4114

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ.	η.			ξ.	η.			ξ.	η.		
R.A. 4 <sup>h</sup> 56 <sup>m</sup> (continued)					R.A. 5 <sup>h</sup> 12 <sup>m</sup> (continued)					R.A. 5 <sup>h</sup> 36 <sup>m</sup> (continued)				
9362	A. 1605	8.6	21.8475	17.1409	10.223	A. 1710	6.7	21.2543	20.5027	11.613	A. 1835	8.6	3.7800	24.6396
9496	A. 1612	8.9	24.0528	25.1539	10.225	A. 1711	9.2	21.4483	19.9779	11.532	A. 1836	9.1	5.1319	19.6029
9298	A. 1614	7.5	24.0781	13.3220	10.074	A. 1712	9.1	21.5167	11.2203	11.252	W. 1677	9.0	5.2108	6.8742
9310	A. 1616	8.4	25.1454	13.9947	9.945	W. 1544	8.9	22.7828	3.2966	11.575	A. 1838	8.5	6.8564	22.2702
					10.058	A. 1719	8.8	23.9739	10.5034	11.158	W. 1683	7.6	7.7540	0.6876
R.A. 5 <sup>h</sup> 4 <sup>m</sup>					R.A. 5 <sup>h</sup> 20 <sup>m</sup>					11.444	A. 1843	9.0	7.8404	15.8461
9850	A. 1612	8.9	1.9563	25.1505	10.505	A. 1719	8.8	1.1194	10.5083	11.180	W. 1684	8.8	8.2087	2.5380
9696	A. 1614	7.5	2.1538	13.3159	10.435	W. 1555	9.0	3.9158	6.0925	11.363	A. 1845	9.4	9.3800	11.6021
9712	A. 1616	8.4	2.3285	13.9807	10.495	W. 1561	7.1	5.8433	9.4234	11.364	A. 1846	6.9	9.7566	11.8658
9673	A. 1617	9.1	2.6070	10.6832	10.754	A. 1720	9.2	6.0187	24.2408	11.367	A. 1848	8.8	9.9648	12.0750
9633	W. 1441	9.0	6.2796	7.8968	10.594	A. 1731	8.7	7.1851	15.5784	11.578	A. 1850	8.5	11.0381	22.3202
9551	W. 1445	9.1	7.1485	0.3846	10.594	A. 1734	9.0	7.9031	5.4508	11.538	A. 1853	8.8	11.6417	20.0210
9552	W. 1446	9.2	7.1579	0.4782	10.410	W. 1564	9.0	8.7396	3.6972	11.621	A. 1856	8.6	11.9529	24.5707
9768	A. 1629	9.0	7.8330	18.3202	10.397	W. 1568	9.4	8.7396	3.6972	11.621	W. 1696	9.1	12.5394	2.8860
9608	W. 1449	7.9	9.2683	6.1370	10.411	W. 1569	8.8	9.2545	4.8218	11.622	W. 1698	9.0	12.0375	1.0694
9770	A. 1632	8.9	9.4684	18.2161	10.600	A. 1742	8.9	12.5810	15.0800	11.581	A. 1859	8.7	13.3129	22.5010
9734	A. 1634	8.7	10.6163	14.7583	10.370	W. 1582	6.5	13.0593	1.7987	11.486	A. 1860	8.8	14.2053	18.2608
9609	W. 1452	8.0	10.8750	6.0173	10.399	W. 1583	8.7	14.1001	3.4737	11.166	A. 1860	8.2	15.4006	19.1488
9834	A. 1636	8.9	10.9621	23.0184	10.728	A. 1751	8.6	15.0647	22.7176	11.516	W. 1705	8.4	16.1189	10.1856
9610	W. 1453	9.0	11.3387	5.3743	10.007	A. 1766	9.1	21.8961	15.6306	11.167	W. 1712	9.0	17.1047	4.1877
..	W. 1454	9.2	11.7857	0.0945	10.592	A. 1770	8.1	23.1078	14.6066	11.208	A. 1871	8.6	17.6830	25.3901
9742	A. 1642	8.0	13.3120	15.9917	10.733	A. 1772	8.8	23.6424	21.9281	11.283	W. 1717	7.2	18.2148	7.9536
9625	W. 1457	9.0	13.3701	6.4868	..	W. 1615	8.6	24.4162	0.2326	11.178	W. 1721	8.2	19.1269	1.7838
9701	A. 1644	8.7	14.6074	13.4319						11.344	A. 1875	9.1	19.4317	11.0804
9594	W. 1461	9.2	15.5602	4.7171						11.141	A. 1878	8.0	19.6833	13.1629
9599	W. 1407	8.9	17.5796	2.7730						11.302	W. 1725	9.4	19.8195	8.8002
9825	A. 1654	8.0	19.1464	22.4566						11.493	A. 1879	8.5	19.9914	17.9156
9570	W. 1465	9.0	21.3098	3.0241						11.346	A. 1880	8.9	20.2700	10.9686
9759	A. 1674	8.6	22.7013	17.5985						11.398	A. 1881	8.5	20.2120	12.8010
9617	W. 1479	8.9	23.5640	5.6038						11.531	A. 1884	5.5	21.4818	20.2518
9642	W. 1482	8.8	24.6126	7.8991						11.471	A. 1893	7.6	23.9491	10.9633
9643	W. 1484	8.8	24.7702	7.9225						11.447	A. 1894	9.0	23.7998	14.3958
										11.449	A. 1901	8.8	25.3443	14.5672
										11.273	W. 1741	8.7	25.3780	6.5726
R.A. 5 <sup>h</sup> 12 <sup>m</sup>					R.A. 5 <sup>h</sup> 28 <sup>m</sup>					R.A. 5 <sup>h</sup> 44 <sup>m</sup>				
9.974	W. 1479	8.9	0.6566	5.6128	11.073	A. 1772	8.8	0.9111	21.9395	11.414	A. 1893	7.6	0.7095	16.9961
10.016	W. 1482	8.8	1.7298	7.8971	10.851	W. 1615	8.6	1.4508	0.2336	11.896	A. 1894	9.0	0.9872	14.4023
10.017	W. 1484	8.8	1.8878	7.9197	10.916	W. 1616	8.8	3.1742	7.1113	11.398	W. 1741	8.7	2.4808	6.5266
10.256	A. 1669	9.0	2.6585	22.9182	10.905	W. 1610	8.3	3.5044	5.8367	11.531	A. 1894	8.5	2.5314	14.5572
10.105	A. 1673	8.5	3.7861	13.9922	11.052	A. 1781	8.8	3.7616	19.9974	11.471	A. 1893	7.6	2.5314	14.5572
10.140	A. 1674	8.5	3.9156	16.3736	11.059	W. 1622	9.0	5.2183	4.9906	11.449	A. 1901	8.8	25.3443	14.5672
10.049	W. 1493	8.6	3.9773	9.5093	10.889	A. 1785	9.0	6.7236	20.6107	11.273	W. 1741	8.7	25.3780	6.5726
9.918	W. 1494	7.7	4.1809	1.3342	11.062	A. 1787	8.5	7.3010	21.3606					
10.231	A. 1675	8.6	4.5657	21.1188	11.062	A. 1788	8.5	8.2176	21.2172					
9.950	W. 1497	8.0	4.6842	3.6669	10.862	W. 1634	9.2	9.8368	1.5171					
10.200	A. 1682	7.6	7.5677	19.0191	10.910	W. 1635	9.0	9.9384	6.6066					
9.954	W. 1520	7.0	14.0238	4.0264	11.004	A. 1796	9.1	10.7583	15.1585					
10.023	W. 1523	9.1	14.9278	7.7221	11.079	A. 1797	8.4	11.1452	22.4878					
9.955	W. 1524	9.0	14.9377	4.2194	10.953	A. 1799	8.6	11.8072	11.0874					
10.080	A. 1693	7.2	15.7195	11.5995	10.936	W. 1643	9.2	12.0289	8.6754					
10.251	A. 1695	8.1	16.5396	22.2333	10.966	A. 1804	3.0	14.9912	11.7262					
10.097	A. 1696	8.0	16.5851	12.6073	10.892	W. 1651	8.2	15.0602	4.9178					
10.147	W. 1697	8.7	16.7021	15.9544	10.855	W. 1652	9.0	14.8401	1.1125					
10.190	A. 1699	8.7	17.5990	18.4315	10.867	A. 1810	8.7	15.5414	20.5811					
10.239	A. 1700	8.2	17.6332	21.6310	10.957	A. 1812	8.4	16.5504	11.2570					
10.009	W. 1533	8.6	17.8024	6.6056	11.015	A. 1813	8.8	16.6099	16.2608					
10.263	A. 1701	8.7	18.6371	23.1156	11.083	A. 1814	8.5	16.8366	21.9788					
10.047	W. 1537	8.4	19.6704	9.1393	11.041	A. 1815	9.0	17.0696	19.1885					
10.148	A. 1704	6.5	19.8087	15.8528	11.031	A. 1820	7.8	18.2439	17.8841					
9.928	W. 1538	9.0	20.4098	1.8608	11.080	W. 1657	9.0	18.3352	3.6666					
9.958	W. 1540	8.9	21.0466	3.6230	11.108	A. 1822	6.9	18.3856	23.5631					
					10.939	W. 1658	8.8	19.2401	8.4527					
					..	W. 1666	8.8	23.4314	0.1342					
					11.088	A. 1829	8.6	23.5910	22.1221					
R.A. 5 <sup>h</sup> 36 <sup>m</sup>					R.A. 5 <sup>h</sup> 36 <sup>m</sup>					R.A. 5 <sup>h</sup> 36 <sup>m</sup>				
11.568	A. 1829	8.6	0.8648	22.1309	11.568	A. 1829	8.6	0.8648	22.1309	11.568	A. 1829	8.6	0.8648	22.1309
11.172	W. 1672	8.9	2.8003	1.9448	11.172	W. 1672	8.9	2.8003	1.9448	11.172	W. 1672	8.9	2.8003	1.9448
11.109	W. 1673	9.2	3.2488	3.8249	11.109	W. 1673	9.2	3.2488	3.8249	11.109	W. 1673	9.2	3.2488	3.8249
													</	



Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ℓ.	ℓ.			ℓ.	ℓ.			ℓ.	ℓ.		
<b>R.A. 5<sup>h</sup> 44<sup>m</sup> (continued)</b>					<b>R.A. 6<sup>h</sup> 0<sup>m</sup> (continued)</b>					<b>R.A. 6<sup>h</sup> 16<sup>m</sup> (continued)</b>				
11,093	A. 1957	8-9	20-1168	20-6814	12,487	W. 1905	9-0	18-0921	7-8328	13,397	W. 2013	9-0	11-1510	7-3940
12,022	A. 1958	8-9	20-5100	22-0364	12,564	A. 2079	8-7	18-0931	13-5458	13,548	A. 2189	8-8	11-4621	17-5047
11,886	A. 1961	8-5	21-7304	12-1569	12,505	A. 2080	8-9	18-1129	13-4339	13,411	W. 2016	8-9	11-7816	8-6886
12,024	A. 1966	8-9	22-5041	22-3660	12,721	A. 2085	8-8	20-6138	25-9492	13,348	W. 2018	9-0	12-8615	3-7955
11,743	W. 1797	8-8	23-2480	1-4604	12,511	W. 1913	9-0	20-8203	10-0665	13,647	A. 2195	9-4	13-7835	23-7873
11,821	W. 1799	8-4	23-7976	7-9890	12,525	W. 1914	8-5	21-1504	10-6696	13,466	A. 2196	8-8	13-7933	11-4051
12,009	A. 1969	7-4	23-9434	25-9714	12,491	W. 1917	8-9	22-2975	8-1510	13,602	A. 2198	8-7	14-1715	21-0257
11,840	W. 1801	9-2	24-3565	8-7914	12,449	W. 1920	9-2	22-8661	4-3828	13,509	A. 2199	9-0	14-2487	14-0704
<b>R.A. 5<sup>h</sup> 52<sup>m</sup></b>					12,450	W. 1921	9-2	22-9711	4-9066	13,480	W. 2025	9-1	14-2544	12-3477
12,165	W. 1799	8-4	0-9160	7-9960	12,451	W. 1924	9-0	24-6581	4-8958	13,312	W. 2026	7-9	14-3367	0-2128
12,361	A. 1969	7-4	1-2557	25-0760	12,725	A. 2097	9-0	24-7940	25-9686	13,349	W. 2027	9-0	14-6559	3-1602
12,171	W. 1801	9-2	1-4834	8-7924	<b>R.A. 6<sup>h</sup> 8<sup>m</sup></b>					13,448	W. 2028	8-8	14-6668	10-4553
12,231	A. 1974	9-0	3-7999	13-7472	12,811	W. 1924	9-0	1-7430	4-8958	13,469	A. 2202	8-1	14-8407	11-9424
12,197	W. 1812	8-6	3-8634	10-5381	12,360	A. 2097	9-0	2-1062	25-9634	13,522	W. 2036	9-0	15-6261	6-7021
12,137	W. 1815	8-8	4-3902	4-1550	12,753	W. 1928	9-0	3-9548	0-9040	13,511	A. 2207	8-0	16-5199	14-4056
12,252	A. 1980	8-8	5-7292	15-0203	12,812	W. 1929	8-0	3-9770	4-3129	13,522	A. 2208	9-0	16-5417	15-8651
12,119	W. 1821	8-6	6-4829	2-5179	13,028	A. 2100	6-7	4-2809	14-3218	13,552	A. 2212	8-8	17-1573	17-7530
12,200	W. 1823	8-3	7-4682	10-4907	13,112	A. 2102	8-2	4-3524	18-7701	13,498	A. 2213	8-8	17-2223	13-4665
12,190	W. 1824	8-8	7-6186	9-7246	13,247	A. 2108	8-8	5-0888	24-7782	13,663	A. 2214	9-1	17-3421	27-7662
12,342	A. 1985	8-5	8-2319	23-5404	12,890	W. 1938	9-0	7-2709	7-4554	13,628	A. 2215	8-9	17-5797	22-7201
12,101	W. 1826	8-4	9-0030	0-8689	12,800	W. 1939	8-7	7-2878	3-2758	13,664	A. 2216	9-2	18-0017	24-8012
12,357	A. 1988	7-7	10-8105	24-7129	13,116	A. 2116	8-9	8-3757	18-9804	13,678	A. 2218	8-7	18-0352	25-5934
12,224	A. 1990	8-8	11-0077	13-2989	12,912	W. 1940	9-1	8-4520	8-5713	13,471	A. 2221	2-6	19-5527	11-8842
12,217	A. 1993	8-5	12-1902	11-7495	12,846	W. 1946	8-6	10-7777	6-0568	13,630	A. 2223	8-9	20-0524	22-6341
12,136	W. 1838	8-2	12-6051	4-0498	13,034	W. 1950	7-2	11-0859	14-9636	13,586	A. 2224	8-7	20-1808	19-9765
12,200	A. 1997	8-8	12-9981	11-1833	13,138	A. 2129	8-7	11-8468	19-8345	13,514	A. 2225	8-5	20-6534	2-7273
12,278	A. 2005	8-5	14-0667	4-5179	13,081	A. 2133	8-8	13-8987	16-3842	13,654	A. 2227	7-5	21-0445	15-0747
12,120	W. 1842	9-3	16-2687	2-5429	12,929	W. 1954	7-8	14-0358	9-8546	13,369	W. 2058	8-8	23-1646	5-6871
12,241	A. 2010	7-0	16-3089	13-8026	12,805	W. 1955	9-0	14-1053	3-5000	13,454	W. 2059	8-6	23-7142	11-0021
12,370	A. 2015	8-8	18-1679	22-5755	13,210	A. 2137	8-9	15-3002	22-9402	13,670	A. 2236	9-0	24-5923	24-8235
12,227	A. 2016	8-7	18-2709	12-9096	13,188	A. 2141	8-9	16-9131	21-7590	<b>R.A. 6<sup>h</sup> 24<sup>m</sup></b>				
12,365	A. 2020	8-7	20-1301	25-9821	13,099	A. 2142	8-8	17-0893	17-8352	13,868	W. 2059	8-6	0-8650	11-0092
12,219	A. 2023	8-8	21-1707	11-9697	12,879	W. 1966	8-8	18-3441	6-3926	14,117	A. 2236	9-0	1-8921	24-8208
12,117	W. 1854	9-2	21-5670	2-0452	12,956	W. 1968	8-9	18-6007	10-5719	13,995	A. 2241	8-7	3-9442	18-1073
12,118	W. 1860	8-6	22-0245	2-0615	12,854	W. 1969	8-9	18-6572	6-1539	14,044	A. 2246	8-7	5-6506	20-0238
12,300	A. 2028	8-8	23-2082	19-0756	12,880	W. 1970	9-2	18-6717	6-4300	14,104	A. 2249	8-3	6-5994	24-0235
<b>R.A. 6<sup>h</sup> 0<sup>m</sup></b>					13,018	A. 2147	8-5	19-5253	13-6418	13,936	A. 2253	8-9	7-7823	15-0913
12,467	W. 1876	8-5	3-7962	7-1140	13,104	A. 2151	6-5	21-2855	18-3400	14,088	A. 2255	9-0	8-4821	23-2487
12,504	A. 2030	8-7	4-7533	16-4974	13,127	A. 2153	8-8	21-6511	18-6136	13,899	A. 2257	9-0	8-5425	12-1707
12,441	W. 1871	9-1	5-0132	4-6451	13,147	A. 2155	8-8	21-8308	19-8856	13,707	W. 2085	8-4	8-7988	0-2756
12,558	A. 2042	8-6	5-4339	13-7649	12,763	W. 1977	8-0	23-0044	0-9753	13,839	W. 2087	8-4	9-4727	8-2544
12,653	A. 2043	8-4	5-7394	19-2447	12,779	W. 1979	9-3	23-2186	1-9905	14,120	A. 2263	8-5	10-2097	24-5950
12,644	A. 2048	8-2	7-3597	19-7966	12,907	W. 1982	9-1	23-6123	7-4886	13,825	W. 2091	9-2	11-4498	7-8071
12,518	A. 2049	8-0	7-9553	11-2061	12,981	A. 2162	8-9	24-0452	11-8017	13,753	W. 2094	9-0	12-9217	3-8208
12,616	A. 2051	8-5	7-9764	17-7902	12,885	W. 1985	8-4	24-7475	6-6905	13,785	W. 2096	7-1	13-5573	5-8292
12,575	A. 2053	8-6	8-2764	14-8709	<b>R.A. 6<sup>h</sup> 16<sup>m</sup></b>					14,094	A. 2284	8-8	15-0793	23-2978
12,521	W. 1882	8-7	9-1805	10-5950	13,393	W. 1982	9-1	0-7252	7-4977	13,857	W. 2100	8-2	15-6925	9-9710
12,646	A. 2062	8-9	11-4518	19-6075	13,460	A. 2162	8-9	1-2057	11-8958	13,712	W. 2101	7-8	16-4013	0-3397
12,700	A. 2065	8-2	12-0858	24-0812	13,373	W. 1985	8-4	1-8517	6-6877	13,770	W. 2104	9-2	17-0904	4-6825
12,542	A. 2068	8-0	14-0622	12-1036	13,544	A. 2166	8-9	2-9021	17-9221	14,007	A. 2288	8-9	17-1022	18-2855
12,562	A. 2071	7-9	14-2482	13-8647	13,572	A. 2167	8-0	3-1101	19-8832	13,984	A. 2289	9-0	17-1240	17-3038
12,436	W. 1990	9-2	16-6034	3-5687	13,304	W. 1990	8-8	4-3219	0-5895	14,010	A. 2292	9-1	17-8716	17-8429
12,601	A. 2076	9-2	16-6759	17-0853	13,346	W. 1996	8-8	6-1743	3-8969	13,886	W. 2114	8-1	19-4806	11-1731
12,408	W. 1902	8-3	16-9082	0-4105	13,576	A. 2176	9-0	6-6191	19-2861	13,945	A. 2299	8-9	20-0800	14-1119
12,698	A. 2078	9-1	17-8588	23-6140	13,545	A. 2178	8-7	7-1268	17-5184	13,792	W. 2124	9-0	21-7808	6-0650
					13,382	W. 2011	8-0	10-8977	6-8068	13,913	W. 2307	6-9	23-0567	12-9102
										13,834	W. 2132	9-0	24-2192	7-7106
										13,916	A. 2311	9-1	24-4890	12-9954

Reference No.				Mag.				Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.		ξ.		η.		ξ.		η.	
<b>R.A. 6<sup>h</sup> 32<sup>m</sup></b>											
14,270	W. 2132	9.0	1.3345	7.7126							
14,306	A. 2311	9.1	1.6613	12.9947							
14,287	W. 2136	8.1	2.0418	8.6499							
14,235	W. 2139	9.1	3.7055	5.9766							
14,370	A. 2310	8.7	4.4011	13.0318							
14,391	A. 2321	9.1	4.0608	13.8593							
14,223	W. 2149	9.0	7.6610	4.4436							
14,551	A. 2327	8.3	7.7302	21.8116							
14,375	A. 2331	9.0	8.6438	12.3822							
14,157	W. 2157	9.1	9.6786	0.3095							
14,468	A. 2342	9.0	10.8027	17.9074							
14,430	A. 2344	8.9	11.4907	15.7333							
14,516	A. 2347	8.2	12.0479	19.9399							
14,517	A. 2349	6.5	13.0047	19.9332							
14,433	A. 2350	8.8	13.9375	16.1963							
14,188	W. 2165	8.8	13.9395	2.8188							
14,572	A. 2360	8.8	15.1311	23.1812							
14,502	A. 2361	8.4	15.4603	18.3896							
14,351	W. 2171	8.0	15.5409	11.3422							
14,163	W. 2175	8.1	16.6619	0.1201							
14,447	A. 2368	5.0	17.2548	1.8153							
14,192	W. 2170	8.2	17.3839	2.0385							
14,439	A. 2374	8.8	19.2746	16.2704							
14,354	A. 2375	8.9	19.3937	11.5856							
14,340	W. 2184	9.1	19.6674	11.1344							
14,400	A. 2378	7.2	20.5775	14.1706							
14,248	W. 2196	9.2	21.2957	3.7062							
14,263	W. 2197	9.2	21.4382	6.3073							
14,265	W. 2199	9.0	21.6360	6.4607							
14,655	A. 2384	8.9	23.3033	25.9786							
14,219	W. 2203	8.2	23.4937	3.4464							
14,638	A. 2387	8.0	24.0384	25.0881							
<b>R.A. 6<sup>h</sup> 40<sup>m</sup></b>											
15,074	A. 2387	8.0	1.3411	25.0916							
14,823	W. 2209	8.4	3.0135	9.2432							
14,842	A. 2392	9.0	3.7996	11.5292							
14,781	W. 2212	8.0	4.7988	6.2758							
14,844	W. 2215	9.2	5.5091	11.3715							
14,904	A. 2403	8.6	5.8849	15.1321							
14,825	W. 2219	9.0	6.0091	9.1218							
15,077	A. 2405	9.0	6.3309	24.6716							
14,754	W. 2221	9.1	6.8460	4.2801							
15,078	A. 2408	9.1	7.0434	24.4509							
14,923	A. 2411	8.9	7.2280	15.2887							
15,079	A. 2413	8.8	7.3265	25.0579							
14,826	W. 2223	9.0	7.5342	9.3222							
14,794	W. 2228	9.2	9.2431	7.8034							
14,906	A. 2424	9.1	9.7096	14.4076							
15,097	A. 2426	8.3	9.8405	25.6158							
14,716	W. 2231	9.0	10.2492	1.6966							
14,890	A. 2430	8.9	10.9452	13.9873							
14,702	W. 2234	9.2	10.9764	0.2825							
14,941	A. 2431	8.7	12.3876	16.5631							
14,831	W. 2236	6.2	12.7733	9.8940							
14,956	A. 2432	9.1	12.8064	17.7128							
14,868	A. 2439	9.0	13.9058	13.1312							
15,067	A. 2441	7.3	14.0623	24.4074							
14,758	W. 2440	8.6	14.1180	4.9639							
15,084	A. 2443	9.3	14.1802	25.0245							
14,908	A. 2444	9.2	14.2241	4.5657							
14,807	W. 2442	9.4	14.2669	8.8077							
<b>R.A. 6<sup>h</sup> 40<sup>m</sup> (continued)</b>											
14,973	A. 2445	7.9	14.3152	18.6022							
14,707	W. 2444	8.8	14.5826	0.1477							
14,900	A. 2446	6.9	15.1807	14.9664							
14,833	W. 2448	9.2	15.9460	9.8514							
15,070	A. 2449	9.0	15.9745	24.4073							
W. 2251	7.0	16.5418	1.8718								
A. 2458	8.4	17.5302	18.0424								
A. 2459	7.9	17.0408	17.8893								
W. 2263	8.0	18.8033	0.1443								
A. 2464	9.0	18.9272	10.5728								
A. 2466	8.7	18.9926	19.2469								
A. 2469	9.0	19.0391	20.7279								
A. 2470	9.3	19.1742	14.7120								
A. 2471	9.2	19.3161	24.9058								
W. 2267	8.8	19.5631	7.8862								
W. 2268	9.0	19.5633	8.7666								
A. 2475	8.5	20.2205	21.2549								
A. 2477	8.9	20.7576	12.6122								
A. 2485	9.0	21.8863	25.7115								
W. 2273	7.7	22.0797	5.8081								
A. 2487	8.7	23.5392	25.3195								
W. 2274	8.2	23.6677	2.4455								
A. 2488	9.1	23.7649	25.2841								
<b>R.A. 6<sup>h</sup> 48<sup>m</sup></b>											
15,188	W. 2274	8.2	0.7262	2.4533							
15,079	A. 2487	8.7	0.8445	25.3286							
15,680	A. 2488	9.1	1.0698	25.2006							
15,194	W. 2281	8.6	2.6296	8.2133							
15,473	A. 2496	8.8	4.0601	15.4921							
15,495	A. 2497	8.3	4.1190	17.1920							
15,496	A. 2498	8.8	4.2767	16.6324							
15,315	W. 2287	9.0	4.7110	8.3424							
15,277	W. 2291	8.6	5.4225	6.4498							
15,545	A. 2506	9.2	6.5967	19.0655							
15,199	W. 2293	9.2	6.6624	25.9533							
15,218	W. 2294	7.4	6.7809	3.1109							
15,157	W. 2298	6.8	6.9980	0.2667							
15,501	A. 2513	9.2	8.2204	16.5732							
15,221	W. 2303	8.8	8.3144	3.2282							
15,351	W. 2304	8.4	8.8434	9.8800							
15,502	A. 2519	8.8	9.2980	16.7881							
15,600	A. 2520	7.5	9.4985	23.7532							
15,392	W. 2307	8.2	10.0762	12.1364							
15,201	W. 2309	8.4	11.5501	2.5012							
15,203	W. 2310	9.3	11.8773	3.0856							
15,551	A. 2525	9.0	12.1020	19.2171							
15,554	A. 2531	9.2	13.8055	19.3143							
15,225	W. 2315	9.4	14.5359	3.1695							
15,283	W. 2316	8.6	14.6018	6.9890							
15,666	A. 2534	8.8	15.1567	23.5533							
15,667	A. 2537	6.0	15.6812	23.9204							
15,643	A. 2538	6.3	15.8003	22.7313							
15,606	A. 2539	8.9	15.8148	20.7100							
15,508	A. 2541	8.6	16.1166	16.8697							
15,529	A. 2547	8.7	17.6652	18.2896							
15,375	W. 2321	8.6	17.7770	10.3542							
15,461	A. 2549	9.0	17.9791	14.9382							
15,377	W. 2327	8.2	19.2174	10.5032							
15,181	W. 2331	9.2	20.0853	1.8356							
15,182	W. 2334	7.8	21.0735	2.0640							
<b>R.A. 6<sup>h</sup> 48<sup>m</sup> (continued)</b>											
15,513	A. 2505	8.6	22.8047	16.9972							
..	W. 2346	6.0	23.5525	0.1180							
15,707	A. 2508	9.0	23.6214	24.6720							
15,185	W. 2347	9.0	23.9794	1.8774							
15,204	W. 2349	9.0	24.4942	6.2360							
15,566	A. 2572	8.7	24.6113	19.3893							
<b>R.A. 6<sup>h</sup> 56<sup>m</sup></b>											
..	W. 2346	6.0	0.5859	0.1277							
..	A. 2568	9.0	0.9107	24.6803							
..	W. 2347	9.0	1.0318	1.8823							
..	W. 2349	9.0	1.5936	6.2360							
..	A. 2572	8.7	1.8525	19.3869							

Reference No.					Mag.		Standard co-ordinates, 1900-0.				Reference No.					Mag.		Standard co-ordinates, 1900-0.				Reference No.					Mag.		Standard co-ordinates, 1900-0.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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R.A. 7 <sup>h</sup> 4 <sup>m</sup> (continued)										R.A. 7 <sup>h</sup> 12 <sup>m</sup> (continued)										R.A. 7 <sup>h</sup> 20 <sup>m</sup> (continued)										R.A. 7 <sup>h</sup> 28 <sup>m</sup>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
17.268	A. 2603	8-0	5-4678	22-5883	17.655	W. 2564	9-0	11-6755	9-7054	18.281	W. 2685	8-8	18-5081	8-6230	17.101	A. 2605	9-3	5-6088	19-7679	17.460	W. 2568	8-0	12-2774	2-4343	18.648	A. 2681	9-0	18-8667	19-6969	17.102	A. 2606	8-0	5-7605	19-8530	17.461	W. 2569	9-2	12-3327	3-4288	18.147	W. 2688	9-1	19-5079	2-4102	17.103	A. 2608	8-6	6-4073	19-7027	18.075	A. 2855	8-8	13-2302	25-4891	18.283	W. 2691	6-8	20-6524	8-9730	16.384	W. 2450	9-1	6-0158	1-7373	17.956	A. 2858	9-5	14-2229	20-6890	18.729	A. 2989	8-8	5-5976	8-1598	18.209	W. 2692	9-0	20-9815	22-2083	16.042	W. 2461	9-4	7-3495	7-7042	17.501	W. 2570	8-6	15-4338	3-0341	18.544	A. 2993	7-5	21-9556	16-4886	17.330	A. 2701	8-5	7-2432	24-6491	17.629	W. 2580	8-2	15-5976	8-1598	18.545	A. 2994	8-2	22-0684	16-5531	16.064	W. 2466	9-1	8-0394	6-5570	17.765	A. 2862	8-8	15-6123	14-0139	18.789	A. 3002	7-7	23-4516	24-0022	17.277	A. 2710	8-6	9-0551	22-4581	17.932	A. 2863	9-1	15-9535	19-4930	17.558	W. 2606	7-8	21-1498	5-1101	19.017	W. 2718	8-7	5-6139	4-9119	16.366	W. 2460	9-3	10-1231	5-7960	17.957	A. 2864	9-1	16-0648	13-2875	17.933	A. 2865	9-1	16-0648	13-2875	17.934	A. 2866	9-1	16-0648	13-2875	17.935	A. 2867	9-1	16-0648	13-2875	17.936	A. 2868	9-1	16-0648	13-2875	17.937	A. 2869	9-1	16-0648	13-2875	17.938	A. 2870	9-1	16-0648	13-2875	17.939	A. 2871	9-1	16-0648	13-2875	17.940	A. 2872	9-1	16-0648	13-2875	17.941	A. 2873	9-1	16-0648	13-2875	17.942	A. 2874	9-1	16-0648	13-2875	17.943	A. 2875	9-1	16-0648	13-2875	17.944	A. 2876	9-1	16-0648	13-2875	17.945	A. 2877	9-1	16-0648	13-2875	17.946	A. 2878	9-1	16-0648	13-2875	17.947	A. 2879	9-1	16-0648	13-2875	17.948	A. 2880	9-1	16-0648	13-2875	17.949	A. 2881	9-1	16-0648	13-2875	17.950	A. 2882	9-1	16-0648	13-2875	17.951	A. 2883	9-1	16-0648	13-2875	17.952	A. 2884	9-1	16-0648	13-2875	17.953	A. 2885	9-1	16-0648	13-2875	17.954	A. 2886	9-1	16-0648	13-2875	17.955	A. 2887	9-1	16-0648	13-2875	17.956	A. 2888	9-1	16-0648	13-2875	17.957	A. 2889	9-1	16-0648	13-2875	17.958	A. 2890	9-1	16-0648	13-2875	17.959	A. 2891	9-1	16-0648	13-2875	17.960	A. 2892	9-1	16-0648	13-2875	17.961	A. 2893	9-1	16-0648	13-2875	17.962	A. 2894	9-1	16-0648	13-2875	17.963	A. 2895	9-1	16-0648	13-2875	17.964	A. 2896	9-1	16-0648	13-2875	17.965	A. 2897	9-1	16-0648	13-2875	17.966	A. 2898	9-1	16-0648	13-2875	17.967	A. 2899	9-1	16-0648	13-2875	17.968	A. 2900	9-1	16-0648	13-2875	17.969	A. 2901	9-1	16-0648	13-2875	17.970	A. 2902	9-1	16-0648	13-2875	17.971	A. 2903	9-1	16-0648	13-2875	17.972	A. 2904	9-1	16-0648	13-2875	17.973	A. 2905	9-1	16-0648	13-2875	17.974	A. 2906	9-1	16-0648	13-2875	17.975	A. 2907	9-1	16-0648	13-2875	17.976	A. 2908	9-1	16-0648	13-2875	17.977	A. 2909	9-1	16-0648	13-2875	17.978	A. 2910	9-1	16-0648	13-2875	17.979	A. 2911	9-1	16-0648	13-2875	17.980	A. 2912	9-1	16-0648	13-2875	17.981	A. 2913	9-1	16-0648	13-2875	17.982	A. 2914	9-1	16-0648	13-2875	17.983	A. 2915	9-1	16-0648	13-2875	17.984	A. 2916	9-1	16-0648	13-2875	17.985	A. 2917	9-1	16-0648	13-2875	17.986	A. 2918	9-1	16-0648	13-2875	17.987	A. 2919	9-1	16-0648	13-2875	17.988	A. 2920	9-1	16-0648	13-2875	17.989	A. 2921	9-1	16-0648	13-2875	17.990	A. 2922	9-1	16-0648	13-2875	17.991	A. 2923	9-1	16-0648	13-2875	17.992	A. 2924	9-1	16-0648	13-2875	17.993	A. 2925	9-1	16-0648	13-2875	17.994	A. 2926	9-1	16-0648	13-2875	17.995	A. 2927	9-1	16-0648	13-2875	17.996	A. 2928	9-1	16-0648	13-2875	17.997	A. 2929	9-1	16-0648	13-2875	17.998	A. 2930	9-1	16-0648	13-2875	17.999	A. 2931	9-1	16-0648	13-2875	18.000	A. 2932	9-1	16-0648	13-2875	18.001	A. 2933	9-1	16-0648	13-2875	18.002	A. 2934	9-1	16-0648	13-2875	18.003	A. 2935	9-1	16-0648	13-2875	18.004	A. 2936	9-1	16-0648	13-2875	18.005	A. 2937	9-1	16-0648	13-2875	18.006	A. 2938	9-1	16-0648	13-2875	18.007	A. 2939	9-1	16-0648	13-2875	18.008	A. 2940	9-1	16-0648	13-2875	18.009	A. 2941	9-1	16-0648	13-2875	18.010	A. 2942	9-1	16-0648	13-2875	18.011	A. 2943	9-1	16-0648	13-2875	18.012	A. 2944	9-1	16-0648	13-2875	18.013	A. 2945	9-1	16-0648	13-2875	18.014	A. 2946	9-1	16-0648	13-2875	18.015	A. 2947	9-1	16-0648	13-2875	18.016	A. 2948	9-1	16-0648	13-2875	18.017	A. 2949	9-1	16-0648	13-2875	18.018	A. 2950	9-1	16-0648	13-2875	18.019	A. 2951	9-1	16-0648	13-2875	18.020	A. 2952	9-1	16-0648	13-2875	18.021	A. 2953	9-1	16-0648	13-2875	18.022	A. 2954	9-1	16-0648	13-2875	18.023	A. 2955	9-1	16-0648	13-2875	18.024	A. 2956	9-1	16-0648	13-2875	18.025	A. 2957	9-1	16-0648	13-2875	18.026	A. 2958	9-1	16-0648	13-2875	18.027	A. 2959	9-1	16-0648	13-2875	18.028	A. 2960	9-1	16-0648	13-2875	18.029	A. 2961	9-1	16-0648	13-2875	18.030	A. 2962	9-1	16-0648	13-2875	18.031	A. 2963	9-1	16-0648	13-2875	18.032	A. 2964	9-1	16-0648	13-2875	18.033	A. 2965	9-1	16-0648	13-2875	18.034	A. 2966	9-1	16-0648	13-2875	18.035	A. 2967	9-1	16-0648	13-2875	18.036	A. 2968	9-1	16-0648	13-2875	18.037	A. 2969	9-1	16-0648	13-2875	18.038	A. 2970	9-1	16-0648	13-2875	18.039	A. 2971	9-1	16-0648	13-2875	18.040	A. 2972	9-1	16-0648	13-2875	18.041	A. 2973	9-1	16-0648	13-2875	18.042	A. 2974	9-1	16-0648	13-2875	18.043	A. 2975	9-1	16-0648	13-2875	18.044	A. 2976	9-1	16-0648	13-2875	18.045	A. 2977	9-1	16-0648	13-2875	18.046	A. 2978	9-1	16-0648	13-2875	18.047	A. 2979	9-1	16-0648	13-2875	18.048	A. 2980	9-1	16-0648	13-2875	18.049	A. 2981	9-1	16-0648	13-2875	18.050	A. 2982	9-1	16-0648	13-2875	18.051	A. 2983	9-1	16-0648	13-2875	18.052	A. 2984	9-1	16-0648	13-2875	18.053	A. 2985	9-1	16-0648	13-2875	18.054	A. 2986	9-1	16-0648	13-2875	18.055	A. 2987	9-1	16-0648	13-2875	18.056	A. 2988	9-1	16-0648	13-2875	18.057	A. 2989	9-1	16-0648	13-2875	18.058	A. 2990	9-1	16-0648	13-2875	18.059	A. 2991	9-1	16-0648	13-2875	18.060	A. 2992	9-1	16-0648	13-2875	18.061	A. 2993	9-1	16-0648	13-2875	18.062	A. 2994	9-1	16-0648	13-2875	18.063	A. 2995	9-1	16-0648	13-2875	18.064	A. 2996	9-1	16-0648	13-2875	18.065	A. 2997	9-1	16-0648	13-2875	18.066	A. 2998	9-1	16-0648	13-2875	18.067	A. 2999	9-1	16-0648	13-2875	18.068	A. 3000	9-1	16-0648	13-2875	18.069	A. 3001	9-1	16-0648	13-2875	18.070	A. 3002	9-1	16-0648	13-2875	18.071	A. 3003	9-1	16-0648	13-2875	18.072	A. 3004	9-1	16-0648	13-2875	18.073	A. 3005	9-1	16-0648	13-2875	18.074	A. 3006	9-1	16-0648	13-2875	18.075	A. 3007	9-1	16-0648	13-2875	18.076	A. 3008	9-1	16-0648	13-2875	18.077	A. 3009	9-1	16-0648	13-2875	18.078	A. 3010	9-1	16-0648	13-2875	18.079	A. 3011	9-1	16-0648	13-2875	18.080	A. 3012	9-1	16-0648	13-2875	18.081	A. 3013	9-1	16-0648	13-2875	18.082	A. 3014	9-1	16-0648	13-2875	18.083	A. 3015	9-1	16-0648	13-2875	18.084	A. 3016	9-1	16-0648	13-2875	18.085	A. 3017	9-1	16-0648	13-2875	18.086	A. 3018	9-1	16-0648	13-2875	18.087	A. 3019	9-1	16-0648	13-2875	18.088	A. 3020	9-1	16-0648	13-2875	18.089	A. 3021	9-1	16-0648	13-2875	18.090	A. 3022	9-1	16-0648	13-2875	18.091	A. 3023	9-1	16-0648	13-2875	18.092	A. 3024	9-1	16-0648	13-2875	18.093	A. 3025	9-1	16-0648	13-2875	18.094	A. 3026	9-1	16-0648	13-2875	18.095	A. 3027	9-1	16-0648	13-2875	18.096	A. 3028	9-1	16-0648	13-2875	18.097	A. 3029	9-1	16-0648	13-2875	18.098	A. 3030	9-1	16-0648	13-2875	18.099	A. 3031	9-1	16-0648	13-2875	18.100	A. 3032	9-1	16-0648	13-2875	18.101	A. 3033	9-1	16-0648	13-2875	18.102	A. 3034	9-1	16-0648	13-2875	18.103	A. 3035	9-1	16-0648	13-2875	18.104	A. 3036	9-1	16-0648	13-2875	18.105	A. 3037	9-1	16-0648	13-2875	18.106	A. 3038	9-1	16-0648	13-2875	18.107	A. 3039	9-1	16-0648	13-2875	18.108	A.

Reference No.					Mag.		Standard co-ordinates, 1900-0.					Reference No.					Mag.		Standard co-ordinates, 1900-0.					Reference No.					Mag.		Standard co-ordinates, 1900-0.													
Hyd.		Wash. or Alg.					ξ'.		η'.					Hyd.		Wash. or Alg.					ξ'.		η'.					Hyd.		Wash. or Alg.					ξ'.		η'.							
R.A. 7 <sup>h</sup> 36 <sup>m</sup>															R.A. 7 <sup>h</sup> 44 <sup>m</sup> (continued)															R.A. 7 <sup>h</sup> 52 <sup>m</sup> (continued)														
19,860	W. 2800	8-6	0-8841	8-0883	20,732	W. 2936	9-0	6-1778	6-1756	21,783	W. 3082	9-0	23-6130	7-8340	22,533	W. 3081	8-9	0-6786	11-7790	23,019	W. 3173	8-8	0-6758	6-9592	23,019	W. 3173	8-8	0-6758	6-9592	23,019	W. 3173	8-8	0-6758	6-9592										
19,651	W. 2803	8-9	0-8996	0-6753	20,823	W. 2939	9-0	6-5597	8-1509	21,840	W. 3083	8-2	23-9324	9-7852	22,420	W. 3082	9-0	0-7206	7-8431	23,112	W. 3173	9-0	1-8421	25-2725	23,112	W. 3173	9-0	1-8421	25-2725	23,112	W. 3173	9-0	1-8421	25-2725										
19,744	W. 2808	9-4	1-4447	3-7807	21,177	W. 3213	8-9	7-0811	16-0991	21,810	W. 3086	8-3	24-1055	8-8053	22,480	W. 3083	8-2	0-7070	9-7903	23,185	W. 3173	8-8	2-0532	14-2768	23,185	W. 3173	8-8	2-0532	14-2768	23,185	W. 3173	8-8	2-0532	14-2768										
20,306	W. 3097	9-0	1-8448	10-8939	21,535	W. 3217	8-9	8-1469	25-4586	21,726	W. 3087	9-3	24-6280	5-3429	22,457	W. 3086	8-3	1-5335	8-8053	23,166	W. 3173	8-6	3-5078	24-4534	23,166	W. 3173	8-6	3-5078	24-4534	23,166	W. 3173	8-6	3-5078	24-4534										
20,374	W. 3099	8-7	2-7500	21-7823	20,670	W. 2950	9-2	9-9170	3-7636						22,379	W. 3087	9-3	1-7177	5-3409	22,918	W. 3183	8-6	3-5078	24-4534	22,918	W. 3183	8-6	3-5078	24-4534	22,918	W. 3183	8-6	3-5078	24-4534										
20,307	W. 3100	9-1	2-9583	10-7586	20,909	W. 2954	9-2	10-6742	10-0112						22,704	W. 3370	8-6	3-4788	23-3152	23,026	W. 3187	9-0	4-0670	5-9678	23,026	W. 3187	9-0	4-0670	5-9678	23,026	W. 3187	9-0	4-0670	5-9678										
20,309	W. 3107	9-1	4-0855	20-0509	21,349	W. 3235	9-1	12-0315	19-5061						22,676	W. 3374	7-9	4-7425	17-3815	23,166	W. 3475	9-0	4-9760	14-0000	23,166	W. 3475	9-0	4-9760	14-0000	23,166	W. 3475	9-0	4-9760	14-0000										
20,157	W. 3109	8-7	4-2865	15-0909	21,574	W. 3236	8-5	12-1701	26-0008						22,350	W. 3100	9-2	5-8441	4-8499	23,026	W. 3195	8-8	6-4251	8-5359	23,026	W. 3195	8-8	6-4251	8-5359	23,026	W. 3195	8-8	6-4251	8-5359										
19,749	W. 2829	9-2	5-2820	3-3535	21,387	W. 3237	9-3	12-3229	20-7111						22,386	W. 3106	9-0	7-7484	5-7803	22,921	W. 3197	9-0	7-0203	1-9128	22,921	W. 3197	9-0	7-0203	1-9128	22,921	W. 3197	9-0	7-0203	1-9128										
19,715	W. 2832	9-2	6-3829	2-4885	20,673	W. 2958	9-1	12-8816	3-7798						22,332	W. 3111	9-4	9-0504	3-0694																									
20,285	W. 3121	7-4	9-2439	18-4026	21,540	W. 3239	9-0	13-0085	25-5377						22,661	W. 3393	8-1	9-6808	16-6630																									
20,000	W. 2841	9-2	9-5091	11-8205	20,638	W. 2962	8-4	13-7645	2-8047						22,358	W. 3116	9-2	11-0429	4-3924																									
20,034	W. 3123	9-1	9-9022	13-2166	21,512	W. 3243	7-5	13-8515	24-1038						22,840	W. 3397	9-0	11-3091	24-9250																									
19,904	W. 2849	7-9	10-5061	8-7005	20,919	W. 2963	9-3	13-8532	10-3378						22,260	W. 3121	9-2	12-1468	0-7737																									
19,906	W. 2852	9-2	11-1039	9-1208	20,909	W. 2965	8-8	14-2332	11-1347						22,330	W. 3124	7-5	13-0711	5-5863																									
20,417	W. 3127	9-0	11-7216	22-0524	20,608	W. 2966	9-2	14-8013	1-7794						22,777	W. 3405	7-6	13-1644	21-1017																									
19,757	W. 2853	8-6	11-8218	3-8324	20,575	W. 2971	6-9	16-3538	0-6855						22,418	W. 3132	9-0	14-3829	7-0369																									
19,662	W. 2855	9-0	11-9705	0-3286	21,437	W. 3248	8-8	16-7477	22-0623						22,264	W. 3134	9-2	14-8514	0-2386																									
20,201	W. 3131	9-0	12-6654	16-9223	21,398	W. 3249	9-0	16-8677	21-1904						22,197	W. 3139	8-9	15-2031	9-4032																									
20,323	W. 3132	8-6	12-7981	20-1925	20,977	W. 2976	8-6	17-5160	10-6026						22,602	W. 3416	9-0	15-4209	13-8347																									
19,910	W. 2859	9-4	12-9438	8-6562	21,403	W. 3257	8-6	19-1494	21-2652						22,624	W. 3419	8-6	15-6804	14-6164																									
19,940	W. 2860	9-3	12-9467	9-6933	21,404	W. 3259	9-3	19-8076	20-8074						22,526	W. 3443	9-2	16-0525	11-0014																									
20,006	W. 2871	9-2	14-9813	11-7445	21,495	W. 3260	9-3	19-8138	20-8781						22,575	W. 3423	9-1	17-0453	12-5569																									
20,494	W. 3143	8-7	15-1755	24-5349	21,073	W. 3264	7-2	20-5187	12-9293						22,780	W. 3426	9-5	17-6918	21-6815																									
20,390	W. 3144	8-7	15-2779	22-1305	21,583	W. 3270	9-0	21-8020	25-9757						22,781	W. 3428	8-7	17-7549	22-2674																									
20,460	W. 3149	8-8	15-7624	24-1698	21,120	W. 3273	8-2	22-2638	25-0801						22,600	W. 3431	7-8	18-1233	14-0349																									
20,131	W. 3154	9-0	17-1728	14-9544	21,584	W. 3272	9-0	22-2638	25-0801						22,288	W. 3154	9-5	18-3085	1-7349																									
19,691	W. 2878	9-4	17-7126	2-0142	21,120	W. 3273	8-2	22-3797	14-2385						22,291	W. 3157	8-0	19-0871	1-1302																									
20,048	W. 3157	8-7	17-7637	12-6860	21,075	W. 3274	8-8	22-4803	13-4249						22,448	W. 3159	9-0	19-4461	7-6376																									
20,497	W. 3158	8-7	17-8488	24-8611	20,653	W. 2995	8-9	22-4803	13-4249						22,294	W. 3167	7-2	20-8597	1-9799																									
20,050	W. 2884	9-4	18-3799	13-3220	21,482	W. 3279	9-0	22-6145	2-5791						22,375	W. 3169	9-0	21-8819	4-1778																									
20,436	W. 3161	8-1	18-4493	23-4498	20,802	W. 2999	8-3	23-0307	7-3242						22,827	W. 3452	8-9	22-1581	23-6646																									
19,733	W. 2893	9-4	19-5568	2-9774	20,938	W. 3003	8-8	23-0307	7-3242						22,828	W. 3454	8-5	22-4338	23-4872																									
19,849	W. 2895	9-0	19-7839	6-5113											22,421	W. 3173	8-8	23-5688	6-9501																									
20,141	W. 3165	9-0	19-8391	15-1299											22,845	W. 3461	9-0	24-5363	25-2746																									
20,256	W. 3166	9-2	19-8715	18-2978											22,637	W. 3463	8-8	24-8671	14-2817																									
19,697	W. 2899	8-9	20-9816	1-4760											22,840	W. 3470	5-3	25-9499	24-4716																									
19,795	W. 2901	8-4	22-0233	4-9227																																								
19,954	W. 2903	8-9	22-3764	9-5112																																								
20,307	W. 3181	8-6	22-7755	21-2482																																								
20,219	W. 3182	8-8	23-0420	17-4151																																								
19,924	W. 2909	8-6	23-8179	8-5157																																								
20,504	W. 3185	9-0	24-6933	25-2785																																								
19,794	W. 2911	8-4	24-7927	1-6283																																								

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Reference No.			Mag.	Standard co-ordinates, 1900-0.		Reference No.			Mag.	Standard co-ordinates, 1900-0.		Reference No.			Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash.	Alg.		ξ'.	η'.	Hyd.	Wash.	Alg.		ξ'.	η'.	Hyd.	Wash.	Alg.		ξ'.	η'.
R.A. 8 <sup>h</sup> 40 <sup>m</sup> (continued)						R.A. 8 <sup>h</sup> 56 <sup>m</sup> (continued)						R.A. 9 <sup>h</sup> 12 <sup>m</sup> (continued)					
25,308	A. 3864	8-4	12-7168	21-6401		25,632	W. 3663	8-7	20-2157	4-1073		26,538	A. 4138	8-9	17-7875	25-6161	
25,227	A. 3874	9-1	15-5180	14-9383		25,633	W. 3665	8-7	20-2727	4-1966		26,286	W. 3762	9-2	18-8219	10-4309	
25,135	W. 3537	9-2	16-1300	6-5324		25,716	A. 4015	9-1	20-4798	18-1419		26,120	W. 3768	9-2	21-3006	0-2298	
25,057	W. 3540	9-0	17-2149	0-1624		25,711	A. 4016	9-2	20-5821	17-2450		26,260	W. 3769	9-2	21-3269	8-9009	
25,317	A. 3882	8-7	17-8491	22-4094		25,616	W. 3666	9-3	20-8427	1-9399		26,142	W. 3770	9-4	21-5058	1-5603	
25,152	W. 3542	9-3	19-1939	7-9781		25,717	A. 4017	9-1	21-1238	17-8363		26,271	W. 3772	8-9	22-4486	10-1832	
25,257	A. 3888	6-5	19-2651	17-7073		25,624	W. 3668	7-5	21-9353	2-2191		26,348	A. 4149	8-2	22-8081	14-4159	
25,273	A. 3894	8-6	20-7810	18-5381		25,625	W. 3669	9-0	22-1261	3-0101		26,437	A. 4152	8-8	23-4072	19-3077	
25,252	A. 3896	8-6	21-5722	17-1340		25,702	A. 4023	8-8	22-8007	14-7980		26,563	A. 4154	8-9	23-5985	26-0281	
25,300	A. 3903	8-2	23-7806	20-9257		25,634	W. 3673	9-0	23-2602	4-5669		26,122	W. 3775	8-3	23-8604	1-0285	
25,168	W. 3551	8-2	24-1980	9-1073								26,290	W. 3778	8-8	24-6703	10-7363	
25,544	A. 3907	8-9	24-4524	25-4930													
R.A. 8 <sup>h</sup> 48 <sup>m</sup>						R.A. 9 <sup>h</sup> 4 <sup>m</sup>						R.A. 9 <sup>h</sup> 20 <sup>m</sup>					
25,544	A. 3903	8-2	1-0385	20-9321		26,062	A. 4031	8-7	2-7514	24-1082		26,607	W. 3775	8-3	0-9036	1-0344	
25,475	W. 3551	8-2	1-3283	9-1093		26,083	A. 4034	9-0	3-4591	25-7523		26,858	A. 4154	8-9	0-9114	26-0366	
25,580	A. 3907	8-9	1-7595	25-4918		25,850	W. 3676	8-2	3-4800	0-3099		26,713	W. 3778	8-8	1-8182	10-7333	
25,468	W. 3554	8-7	3-2864	8-4791		25,966	A. 4038	8-8	5-1446	4-6107		26,640	W. 3782	8-8	3-9258	4-8576	
25,532	A. 3914	9-0	4-3771	18-8023		26,063	A. 4040	8-6	5-0552	2-2056		26,805	A. 4159	8-7	3-9717	19-2528	
25,489	W. 3560	9-1	4-8339	11-1037		25,851	W. 3682	8-6	6-2288	5-2584		26,641	W. 3783	8-5	4-0333	4-9730	
25,481	W. 3561	9-0	4-8508	10-2562		26,064	A. 4042	8-5	6-9847	23-5958		26,661	W. 3785	8-0	6-7792	6-6045	
25,565	A. 3917	8-7	5-2004	23-3582		25,918	W. 3687	7-5	8-1321	10-6008		26,688	W. 3788	9-3	7-0072	8-1123	
25,556	A. 3919	8-8	5-4593	23-1377		25,865	W. 3688	9-0	8-1065	6-4972		26,100	W. 3791	8-4	8-0207	1-8322	
25,418	W. 3563	9-0	5-8021	2-1831		25,991	A. 4051	9-0	10-1555	16-6137		26,677	W. 3792	9-3	8-3455	7-4049	
25,482	W. 3564	9-0	6-2299	10-5503		25,905	W. 3692	9-0	11-4737	9-2175		26,850	A. 4176	8-6	9-2319	24-0895	
25,450	W. 3565	8-6	6-4706	7-0725		25,867	W. 3693	8-2	11-5529	6-5619		26,644	W. 3795	9-0	10-5168	4-8794	
25,495	A. 3924	9-2	7-8558	13-0909		25,869	W. 3696	9-2	12-2363	6-3315		26,843	A. 4183	9-2	10-8592	23-7914	
25,496	W. 3573	9-2	8-5698	12-7440		26,089	A. 4060	9-0	12-9192	25-7257		26,612	W. 3797	8-9	11-5010	1-7064	
25,426	W. 3578	9-4	10-7945	3-8120		25,922	W. 3702	8-8	14-1700	10-8266		26,746	A. 4184	8-8	12-0624	13-2772	
25,519	A. 3937	8-3	12-1576	15-8720		25,844	W. 3704	8-9	4-2815	4-4653		26,696	W. 3802	8-0	13-6289	8-9264	
25,498	W. 3582	8-8	12-7365	12-6413		25,938	W. 3705	6-0	4-3021	12-0867		26,698	W. 3810	9-0	15-9118	9-0980	
25,499	W. 3586	9-2	13-8812	12-9212		26,078	A. 4064	8-0	14-4983	25-1956		26,632	W. 3812	9-5	15-9923	4-0288	
25,454	W. 3589	9-3	14-7026	6-8078		25,993	A. 4067	9-0	15-0592	10-7377		26,681	W. 3814	7-4	16-6583	7-1885	
25,404	W. 3592	8-0	15-8314	0-7716		26,035	A. 4068	8-6	16-2196	20-6239		26,764	A. 4204	8-8	18-8858	15-0500	
25,538	A. 3953	8-3	18-0013	18-8079		25,984	A. 4070	8-1	16-6038	15-9209		26,827	A. 4206	7-1	19-1785	21-6726	
25,435	W. 3598	9-3	18-0744	4-6464		26,097	A. 4082	8-5	19-8619	25-9707		26,800	A. 4207	9-0	19-2801	18-7277	
25,570	A. 3958	8-7	19-8069	23-8098		25,882	W. 3719	9-0	20-3667	7-5159		26,710	W. 3822	8-8	19-7000	10-1327	
25,529	A. 3960	7-9	19-9084	18-1091		26,074	A. 4090	8-8	25-1916	24-3334		26,829	A. 4212	9-0	20-8388	21-4808	
25,492	W. 3603	7-2	20-4573	11-3282		25,930	W. 3727	9-0	25-2680	10-8213		26,703	W. 3830	8-9	21-9918	8-1835	
25,493	W. 3605	8-0	20-5818	11-5179		25,999	W. 3729	9-1	25-3942	16-8056		26,738	W. 3835	8-5	24-7207	12-3872	
25,547	A. 3962	9-0	21-3532	20-4117								26,684	W. 3838	9-2	25-1843	7-8938	
25,416	W. 3619	7-7	25-0806	1-6269													
25,473	W. 3620	8-1	25-1170	8-8279													
R.A. 8 <sup>h</sup> 56 <sup>m</sup>						R.A. 9 <sup>h</sup> 12 <sup>m</sup>						R.A. 9 <sup>h</sup> 28 <sup>m</sup>					
25,613	W. 3619	7-7	2-1300	1-6210		26,273	W. 3727	9-0	2-4167	10-8121		27,106	W. 3835	8-5	1-8864	12-3842	
25,651	W. 3620	8-1	2-2442	8-8208		26,509	A. 4090	8-8	2-4861	21-7239		27,028	W. 3838	9-2	2-3015	7-8858	
25,652	W. 3622	8-5	3-9975	8-9225		26,395	W. 3729	9-1	2-6080	16-7947		26,979	W. 3839	9-0	2-7929	5-3841	
25,742	A. 3978	8-7	4-6604	22-0487		26,405	A. 4092	8-9	2-8313	17-7161		26,997	W. 3842	9-0	3-2445	5-7019	
25,604	W. 3624	9-0	5-0913	0-1244		26,264	W. 3731	9-1	3-6321	10-3423		26,923	W. 3843	7-9	3-6824	1-8355	
25,723	A. 3981	7-8	5-2403	19-0421		26,333	A. 4093	8-9	4-3701	14-3927		27,295	A. 4224	8-6	4-5945	21-5588	
25,605	W. 3629	8-2	7-1960	0-6026		26,376	A. 4103	7-0	6-5845	16-1512		27,176	A. 4225	9-0	4-5944	14-8671	
25,636	W. 3634	8-6	8-5504	5-4872		26,238	W. 3740	9-2	8-3973	9-2801		27,362	A. 4229	9-0	5-4196	25-7698	
25,631	W. 3637	9-4	10-1092	4-9045		26,340	A. 4110	9-0	10-0525	13-5981		27,177	A. 4230	9-1	5-4556	15-5823	
25,749	A. 3990	6-8	10-4364	22-7020		26,299	W. 3745	9-4	12-0863	11-4708		26,947	W. 3846	8-7	5-7978	3-0281	
25,670	W. 3644	9-4	12-6735	11-0710		26,516	A. 4116	9-0	12-1551	24-0334		26,949	W. 3850	9-2	7-2290	1-8397	
25,753	A. 3995	8-1	12-7010	23-7709		26,537	A. 4119	8-1	12-4947	25-4985		26,949	W. 3852	9-3	8-0956	2-3882	
25,687	W. 3646	9-0	13-5261	12-4644		26,173	W. 3748	8-9	13-2899	3-9875		27,136	W. 3854	8-2	9-4949	12-7295	
25,755	A. 4000	8-7	14-6738	24-3995		26,281	W. 3754	8-9	15-5328	11-2966		27,071	W. 3856	9-5	10-4820	10-1731	
25,699	A. 4004	9-2	16-3562	14-2910		26,302	W. 3759	9-3	16-8666	11-8762		26,908	W. 3861	9-0	11-4769	0-3816	
25,692	A. 4007	9-2	17-2691	13-6066		26,501	A. 4134	9-0	17-2735	22-9005		27,369	A. 4250	8-7	12-0199	25-2321	
						26,285	W. 3757	8-0	17-3578	10-9385		27,351	A. 4251	6-5	12-1298	24-5066	

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ'.	η'.			ξ'.	η'.			ξ'.	η'.		
<b>R.A. 9<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 9<sup>h</sup> 44<sup>m</sup> (continued)</b>					<b>R.A. 10<sup>h</sup> 8<sup>m</sup></b>				
26,910	W. 3862	9.0	12.4175	0.8803	28,154	W. 3967	8.5	14.1643	12.6983	29,635	A. 4519	8.8	0.7493	16.1817
26,985	W. 3864	8.8	13.0607	4.5000	28,163	W. 3968	8.2	14.1667	13.3623	29,559	W. 4083	9.0	1.2320	13.2002
27,000	W. 3866	9.6	14.0036	10.0226	28,137	W. 3969	8.6	15.1816	11.2401	29,487	W. 4085	8.8	2.7082	9.3741
27,252	A. 4257	8.6	14.0830	18.2791	28,171	A. 4414	7.9	19.9140	15.3091	29,488	W. 4086	7.8	2.9333	8.7982
..	W. 3868	9.0	15.4170	0.1211	28,071	W. 3980	9.0	20.7322	2.3362	29,503	W. 4088	9.0	4.2310	10.3045
27,371	A. 4264	8.7	15.6589	25.6355	28,247	A. 4419	9.0	21.4339	24.8877	29,654	A. 4529	8.1	5.0395	17.4927
27,270	A. 4268	9.1	16.7768	10.9537	28,079	W. 3985	9.2	23.0364	4.1142	29,588	A. 4530	7.3	6.7183	14.3454
27,308	A. 4269	8.6	17.0786	20.9225	28,057	W. 3988	8.4	23.9384	0.5457	29,639	A. 4531	8.7	7.1598	15.7175
27,283	A. 4272	8.9	17.3229	20.0701	28,214	A. 4422	9.1	24.1417	21.5594	29,785	A. 4535	9.0	8.1770	23.5389
27,213	A. 4274	8.3	17.9512	16.6949	28,150	W. 3991	9.0	24.4833	11.4224	29,455	W. 4096	9.0	8.4734	6.0980
27,039	W. 3872	9.1	17.9550	7.5476	28,126	W. 3990	9.2	24.3255	8.5267	29,383	W. 4097	8.2	8.6937	2.7159
27,355	A. 4279	9.0	19.2076	24.3234	28,142	W. 3993	9.0	24.8399	10.6346	29,676	A. 4538	6.4	8.8524	18.5403
27,191	A. 4292	8.3	23.2500	15.3185						29,530	W. 4098	8.8	8.8980	10.5383
..	W. 3886	8.6	23.6584	0.2734						29,824	A. 4548	8.4	11.6122	25.7049
27,271	A. 4299	8.9	24.4365	19.5974						29,790	A. 4550	9.1	12.5055	23.3232
<b>R.A. 9<sup>h</sup> 36<sup>m</sup></b>					<b>R.A. 9<sup>h</sup> 52<sup>m</sup></b>					29,739	A. 4551	6.7	12.6864	20.8671
27,401	W. 3886	8.6	0.6035	0.2822	28,301	W. 3988	8.4	0.9764	0.5516	29,573	W. 4114	9.2	14.5795	13.2969
27,841	A. 4299	8.9	1.6801	19.5968	28,434	W. 3990	9.2	1.4064	21.5618	29,595	A. 4555	8.9	15.4812	12.2982
27,672	W. 3889	8.6	3.5820	12.8885	28,493	W. 3991	9.0	1.4496	8.5277	29,742	A. 4556	8.7	17.3399	21.1529
27,850	A. 4304	7.7	5.1173	19.7369	28,394	W. 3996	7.6	1.6386	11.4214	29,441	W. 4118	9.0	17.1120	5.8707
27,724	A. 4305	9.2	5.5486	15.1465	28,743	A. 4427	8.2	1.9868	10.6305	29,478	W. 4119	9.4	17.2109	7.4489
27,822	A. 4308	8.2	6.2117	19.3968	28,305	W. 3997	8.9	4.0561	25.1859	29,600	W. 4120	9.0	18.7168	8.4605
27,755	A. 4310	9.2	6.2803	15.6121	28,347	W. 3999	8.4	4.3285	1.2748	29,553	W. 4123	9.2	20.9395	18.2624
27,599	W. 3901	8.4	8.0745	9.7893	28,344	W. 4003	9.2	5.5947	10.5402	29,630	A. 4568	8.6	22.5237	15.6224
27,444	W. 3902	7.8	8.1168	3.0800	28,655	A. 4435	5.8	6.9419	2.7374	..	W. 4125	8.4	22.8234	0.0779
27,632	W. 3903	8.5	0.1556	11.3200	28,462	W. 4005	9.0	7.8114	10.4340	29,770	A. 4571	7.1	23.7102	22.7488
27,583	W. 3906	8.4	10.2645	8.3857	28,307	W. 4008	7.8	9.6485	0.9476	29,537	W. 4129	8.7	24.3058	10.7866
27,826	A. 4323	8.9	10.6606	18.7998	28,440	W. 4009	9.0	10.1486	8.6368	<b>R.A. 10<sup>h</sup> 16<sup>m</sup></b>				
27,706	A. 4328	8.6	12.7595	13.7303	28,310	W. 4013	9.0	12.9072	0.8348	30,097	A. 4571	7.1	0.9878	22.7560
27,686	A. 4329	8.5	12.8170	13.3753	28,584	A. 4450	9.1	13.6023	15.2261	29,952	W. 4129	8.7	1.4542	10.7876
27,522	W. 3915	9.1	14.2313	6.1382	28,347	W. 4017	8.7	13.8855	2.6167	29,878	W. 4131	9.1	2.9932	3.7297
27,406	W. 3916	8.4	14.3917	0.1533	28,312	W. 4021	9.4	14.9832	0.5362	30,123	A. 4577	8.7	3.7194	24.9481
27,600	W. 3917	8.4	15.3135	13.3578	28,590	A. 4463	8.0	21.5333	15.2440	29,864	W. 4132	8.8	3.8357	1.4627
27,523	W. 3918	8.8	15.5027	6.1575	28,354	W. 4033	8.9	22.7310	2.9109	29,962	W. 4133	9.0	3.9267	12.6279
27,455	W. 3919	9.1	15.7865	2.9393	28,388	W. 4036	8.4	23.3348	5.2227	30,045	A. 4581	9.2	4.8270	18.4824
27,499	W. 3920	8.4	16.2137	5.1534	28,571	A. 4468	9.3	23.3827	14.8054	29,865	W. 4134	9.3	6.8073	1.5099
27,544	W. 3922	9.1	16.7574	6.6850	<b>R.A. 10<sup>h</sup> 0<sup>m</sup></b>					29,924	W. 4135	8.8	7.7383	8.2446
27,784	A. 4342	8.9	17.8497	16.9044	29,059	A. 4473	8.4	3.8148	13.7223	29,851	W. 4138	8.9	8.6944	0.0260
27,435	W. 3929	9.0	18.7944	1.3349	28,908	W. 4044	8.0	5.1145	7.1455	30,018	A. 4589	8.6	9.0362	16.4058
27,742	A. 4345	8.9	18.9418	15.3872	29,199	A. 4479	8.8	6.2960	19.8155	30,048	A. 4599	9.0	12.1060	18.5113
28,004	A. 4351	8.6	19.8168	25.7992	28,888	W. 4051	9.2	7.7446	5.9753	30,069	A. 4600	7.3	12.9749	19.6019
27,114	W. 3932	8.4	21.3418	0.7114	29,039	W. 4053	8.8	8.6268	13.1361	29,915	W. 4147	6.0	13.9109	6.7676
28,006	A. 4359	8.3	22.6505	25.8816	29,161	A. 4485	8.7	10.6629	17.8084	29,869	W. 4148	8.9	14.0114	2.0837
27,086	A. 4366	8.5	24.7230	24.9487	29,042	W. 4058	9.2	10.6700	13.1206	29,916	W. 4154	8.0	16.3519	7.3637
27,181	W. 3938	8.0	24.8455	3.9938	28,958	W. 4061	7.8	10.8741	8.4025	29,871	W. 4156	9.2	17.4650	0.9092
27,182	W. 3941	9.3	25.1480	3.6316	29,282	A. 4488	9.0	10.9432	8.4072	30,129	A. 4612	8.2	17.7050	1.9952
<b>R.A. 9<sup>h</sup> 44<sup>m</sup></b>					29,283	A. 4491	8.4	11.7770	24.4818	30,104	A. 4613	9.1	18.6031	24.1438
28,074	W. 3938	8.0	1.0207	3.9809	29,285	A. 4491	8.4	12.1301	24.1328	29,860	W. 4163	9.1	19.1915	22.0857
28,241	A. 4366	8.5	2.0243	24.9444	28,915	W. 4063	8.0	12.4915	6.4452	30,119	A. 4622	9.0	21.8309	0.4446
28,075	W. 3941	9.3	2.2103	3.6264	28,984	W. 4064	9.2	13.0895	9.6673	..	W. 4165	8.5	22.6408	23.9634
28,095	W. 3945	9.2	4.2679	6.7701	29,263	A. 4505	8.7	18.3637	22.8449	30,085	A. 4625	8.3	23.8301	20.0492
28,174	A. 4374	8.3	4.7229	15.8912	29,264	A. 4506	8.5	18.3812	22.8703	30,003	W. 4167	neb.	24.2770	14.6638
28,195	A. 4386	8.5	11.2199	18.4452	28,806	W. 4071	7.8	19.0626	0.4864	<b>R.A. 10<sup>h</sup> 24<sup>m</sup></b>				
28,145	W. 3957	8.5	11.2473	11.9283	28,807	W. 4072	8.6	19.6256	0.9719	30,444	A. 4625	8.3	1.0785	20.0553
28,168	A. 4387	9.1	11.3376	14.8163	28,808	W. 4077	9.2	21.0648	0.8642	39,373	W. 4167	Var.	1.4673	14.6648
28,091	W. 3960	9.1	11.4634	5.5483	29,329	A. 4515	8.6	22.5760	25.9326	39,327	W. 4173	8.8	4.3519	12.1449
28,233	A. 4393	7.8	13.2399	23.1697	29,029	W. 4080	8.9	23.2048	12.1890					
28,069	W. 3966	9.0	14.0294	2.4035	29,126	A. 4519	8.8	23.5428	16.1723					
					29,049	W. 4083	9.0	24.0584	13.1961					

Reference No.			Mag.	Standard co-ordinates, 1900-0.		Reference No.			Mag.	Standard co-ordinates, 1900-0.		Reference No.			Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.			ξ.	η.	Hyd.	Wash. or Alg.			ξ.	η.	Hyd.	Wash. or Alg.			ξ.	η.
R.A. 10 <sup>h</sup> 24 <sup>m</sup> (continued)						R.A. 10 <sup>h</sup> 40 <sup>m</sup> (continued)						R.A. 11 <sup>h</sup> 4 <sup>m</sup>					
30.236	W.	4.177	8.6	5.8122	3.8796	31.098	A.	4.744	8.7	9.0821	17.1145	32.115	A.	4.880	8.8	6.0111	16.0677
30.237	W.	4.178	8.8	6.3078	3.2244	31.132	A.	4.747	8.3	11.5400	20.4021	32.130	A.	4.884	9.3	6.9748	16.9815
30.249	W.	4.180	8.8	6.3941	4.2503	30.074	W.	4.291	9.1	17.6920	7.2632	32.054	W.	4.400	9.3	8.0880	11.0628
30.225	W.	4.182	8.7	7.5006	2.2232	31.105	A.	4.758	7.4	17.7400	17.1667	32.003	W.	4.403	8.6	8.5953	4.1231
30.309	W.	4.184	8.6	8.1716	9.9751	31.039	W.	4.295	9.4	18.7238	12.2597	32.030	W.	4.307	9.0	11.5966	7.872
30.315	W.	4.186	8.0	8.9852	10.3278	31.129	A.	4.762	9.2	19.7053	19.4120	32.202	A.	4.895	8.9	12.3680	21.0195
30.473	A.	4.044	9.2	9.8580	21.7972	31.006	W.	4.299	9.0	19.8481	8.5151	32.005	W.	4.410	9.4	12.3870	4.7110
30.449	A.	4.045	8.9	10.0010	19.8352	31.150	A.	4.767	8.6	22.9011	21.4483	32.235	A.	4.900	6.7	13.0166	23.4965
30.431	A.	4.046	8.8	10.3491	19.5522	31.058	W.	4.313	9.3	25.2498	12.8876	32.135	A.	4.904	8.6	13.6427	16.7704
30.508	A.	4.050	6.4	12.3360	25.1590							32.021	W.	4.412	9.7	14.3747	6.2466
30.365	A.	4.058	9.0	14.1712	13.8153							31.972	W.	4.414	8.8	16.3223	1.2917
30.500	A.	4.050	8.9	14.6643	23.8516							32.067	W.	4.415	6.6	17.1900	12.2547
30.311	W.	4.109	8.8	15.1174	9.7920							32.104	A.	4.914	8.8	17.6506	14.3794
30.418	A.	4.063	8.6	16.6645	18.0080							31.986	W.	4.418	8.9	18.5648	2.8135
30.228	W.	4.202	9.0	17.1716	2.9373							32.106	A.	4.919	8.4	20.5645	14.3339
30.257	W.	4.203	9.0	17.1891	5.2042							32.107	A.	4.921	9.5	20.8241	14.3379
30.423	A.	4.072	8.4	19.2959	18.1070	31.377	W.	4.322	8.0	7.8723	10.6347	31.994	W.	4.423	8.9	22.4765	0.0749
30.215	W.	4.204	8.9	19.3707	1.8235	31.255	W.	4.323	8.8	7.9725	9.4854	32.079	W.	4.424	7.2	23.1148	12.4910
30.334	W.	4.205	9.2	19.9220	11.8390	31.523	A.	4.779	9.3	8.1029	19.9209	32.159	A.	4.927	8.9	23.5158	18.3125
30.450	A.	4.080	8.9	21.8402	20.4647	31.494	A.	4.781	9.0	8.4305	18.2141	32.016	W.	4.427	9.0	23.3478	5.2472
30.320	W.	4.211	9.0	22.0002	10.5954	31.339	W.	4.324	9.3	9.2580	6.7266	32.108	A.	4.928	7.9	23.3454	14.6082
30.259	W.	4.212	9.3	22.1407	5.1637	31.286	W.	4.327	9.2	9.4539	2.9891	32.001	W.	4.429	9.1	23.8586	3.9929
30.440	A.	4.083	8.6	23.1005	19.4678	31.478	A.	4.785	8.6	11.5260	17.3200	32.047	W.	4.431	8.2	25.1541	8.4214
30.465	A.	4.084	8.4	24.0685	21.2522	31.439	A.	4.787	8.5	11.9797	14.2766						
						31.651	A.	4.789	9.0	12.2134	23.0535						
						31.301	W.	4.332	9.2	12.3782	4.0066						
						31.525	A.	4.796	9.0	15.0401	20.2876						
						31.564	A.	4.797	9.0	15.3915	23.7991						
						31.527	A.	4.801	9.1	16.9322	20.9120						
						31.550	A.	4.804	8.7	18.6586	22.5108						
							W.	4.342	9.2	18.8031	0.2273						
						31.553	A.	4.810	8.7	21.0434	22.8646						
						31.586	A.	4.814	8.7	21.9535	24.8753						
						31.447	A.	4.817	8.9	23.6198	1.6645						
						31.348	W.	4.350	9.2	23.7292	6.6232						
						31.412	W.	4.353	8.8	24.3336	12.5332						
						31.370	W.	4.354	9.0	24.5864	9.2749						
R.A. 10 <sup>h</sup> 32 <sup>m</sup>						R.A. 10 <sup>h</sup> 56 <sup>m</sup>						R.A. 11 <sup>h</sup> 12 <sup>m</sup>					
30.805	A.	4.684	8.4	1.3208	21.2555	31.810	A.	4.817	8.9	0.8098	14.6544	32.387	A.	4.928	7.9	0.6751	14.6181
30.660	W.	4.216	9.1	2.7140	10.2559	31.702	W.	4.350	9.2	0.8328	6.6312	32.328	W.	4.429	9.1	0.9338	3.9988
30.607	W.	4.218	8.5	4.4716	4.7519	31.772	W.	4.353	8.8	1.5008	12.5342	32.301	W.	4.431	8.2	2.2770	8.4136
30.608	W.	4.210	8.7	4.7063	4.4905	31.733	W.	4.355	9.0	1.7185	9.2720	32.364	W.	4.465	9.0	3.5400	0.9841
30.673	W.	4.223	9.0	7.1930	10.6920	31.744	W.	4.357	8.8	2.0518	10.1610	32.449	A.	4.935	9.0	4.7914	25.2970
30.717	W.	4.227	7.4	9.5686	13.6254	31.745	W.	4.358	8.6	3.3716	10.2661	32.450	A.	4.936	8.6	6.0217	24.8702
30.650	W.	4.232	9.0	12.1169	8.4087	31.873	A.	4.825	9.0	3.7785	20.9585	32.395	A.	4.939	8.5	7.2595	10.9437
30.779	W.	4.233	9.0	12.6393	11.3876	31.900	A.	4.829	9.0	5.4729	22.9070	32.403	A.	4.940	8.4	7.7942	25.7436
30.774	A.	4.710	9.1	13.9533	18.9766	31.926	A.	4.832	7.1	7.4179	25.8150	32.405	A.	4.942	9.5	7.7950	18.4438
30.828	A.	4.713	8.8	15.0526	23.0460	31.667	W.	4.360	8.2	8.2377	2.0517	32.303	W.	4.446	8.8	8.1995	0.3737
30.609	W.	4.237	8.9	15.2534	4.6160	31.911	W.	4.363	4.5	8.3444	24.3357	32.442	A.	4.944	9.0	8.6672	25.7693
30.600	W.	4.238	8.8	16.0125	3.5861	31.751	A.	4.364	8.5	9.8097	10.1076	32.452	A.	4.950	8.4	10.7126	25.6266
30.611	W.	4.239	8.2	17.8316	5.3941	31.849	A.	4.382	9.0	11.1644	18.4010	32.398	A.	4.957	9.0	14.3209	16.2777
30.888	A.	4.720	8.7	18.7060	25.0727	31.674	W.	4.366	9.4	11.4799	3.9752	32.312	W.	4.455	8.8	16.2992	1.3594
30.803	A.	4.721	9.1	18.8443	20.2513	31.687	W.	4.367	9.4	11.4865	4.4207	32.320	W.	4.457	9.4	17.5098	2.1725
30.663	W.	4.245	9.0	19.2125	9.5791	31.753	A.	4.368	9.4	11.7512	10.4677	32.370	W.	4.458	9.2	18.4597	10.7782
30.569	W.	4.246	9.2	19.3650	1.7678	31.784	W.	4.369	Var.	14.6669	4.4586	32.380	W.	4.459	9.1	19.1328	12.5908
30.571	W.	4.247	8.9	19.5053	1.0673	31.887	A.	4.845	7.2	12.2662	22.6881	32.306	W.	4.462	9.4	20.4072	0.5119
30.606	W.	4.248	8.4	19.7623	12.9734	31.767	W.	4.370	9.3	12.4555	10.9647	32.346	W.	4.465	9.0	21.1758	5.3096
30.557	W.	4.251	8.6	21.8617	0.6220	31.659	W.	4.380	9.0	17.4151	0.9419	32.458	A.	4.973	7.5	22.0901	25.3669
30.754	A.	4.254	9.2	23.2524	1.5157	31.941	A.	4.865	6.5	21.4220	26.3561	32.402	A.	4.975	8.4	22.8229	17.4761
30.754	A.	4.254	9.2	23.2524	1.5157	31.941	A.	4.865	6.5	21.4220	26.3561	32.307	W.	4.467	8.8	22.9523	0.1469
30.726	A.	4.279	9.0	23.4448	14.1849	31.943	A.	4.871	9.0	23.0237	26.5401	32.432	A.	4.977	8.9	24.0845	21.8838
30.870	A.	4.731	9.1	23.5397	25.8801							32.394	A.	4.978	9.1	24.2141	15.1504
30.743	A.	4.732	9.1	24.0621	15.6633												
R.A. 10 <sup>h</sup> 40 <sup>m</sup>						R.A. 11 <sup>h</sup> 20 <sup>m</sup>											
31.198	A.	4.731	9.1	0.8510	25.8894	32.682	A.	4.977	8.9	1.3528	21.8869						
31.086	A.	4.732	9.1	1.2632	15.6669	32.624	A.	4.978	8.8	1.4906	15.1524						
30.904	W.	4.260	9.1	3.4352	1.0852	32.647	A.	4.981	8.8	3.4483	18.0235						
31.047	W.	4.266	8.8	6.5365	13.1852	32.526	W.	4.743	9.1	4.8056	4.3444						
30.933	W.	4.267	8.9	6.6269	3.4586	32.609	W.	4.475	9.2	6.2687	13.5941						
30.916	W.	4.268	8.6	6.6305	1.5546	32.571	W.	4.476	9.2	6.4232	9.0033						
						32.603	W.	4.479	9.0	6.6388	12.5862						
						32.628	A.	4.992	5.7	8.4684	15.7702						
						32.505	W.	4.484	8.2	8.7608	1.8663						

Reference No.				Mag.		Standard co-ordinates, 1900-0.		Reference No.				Mag.		Standard co-ordinates, 1900-0.		Reference No.				Mag.		Standard co-ordinates, 1900-0.																																											
Hyd.		Wash. or Alg.				ξ'. η'.		Hyd.		Wash. or Alg.				ξ'. η'.		Hyd.		Wash. or Alg.				ξ'. η'.																																											
R.A. 11 <sup>h</sup> 20 <sup>m</sup> (continued)																						R.A. 11 <sup>h</sup> 36 <sup>m</sup> (continued)																						R.A. 11 <sup>h</sup> 52 <sup>m</sup> (continued)																					
32,580	W. 4485	8-8	8-8937	10-2630				33,138	A. 5110	8-3	15-5634	23-6758				33,524	W. 4669	8-8	17-7549	3-4381																																													
32,654	A. 4997	8-6	10-6371	18-1474				33,075	W. 4580	9-0	17-8109	11-8026				33,644	A. 5214	9-3	20-2906	17-0056																																													
32,707	A. 5001	8-8	12-1207	24-3199				33,043	W. 4582	9-4	18-5318	7-3922				33,545	W. 4673	9-0	21-5726	6-3440																																													
32,517	W. 4487	4-0	12-6698	2-6158				33,045	W. 4587	8-8	20-2356	7-5179				33,725	A. 5217	6-2	23-6021	26-2602																																													
32,620	W. 4488	8-0	13-7207	13-6871				33,004	W. 4588	9-2	20-7271	0-7253				33,597	W. 4680	9-0	24-1917	12-5483																																													
32,663	A. 5012	8-6	16-4055	19-3350				33,081	W. 4590	9-0	21-1591	13-1081				33,726	A. 5225	8-9	25-1985	26-3925																																													
32,595	W. 4493	8-4	16-7392	7-5444				33,005	W. 4593	9-4	21-8810	0-4700				33,504	W. 4682	8-5	25-4140	0-5513																																													
32,604	A. 5016	8-4	17-8256	19-2916				33,067	A. 5125	5-0	23-5498	10-5629				33,698	A. 5226	8-7	25-6259	23-1566																																													
32,607	A. 5017	8-9	18-7577	23-8205				33,107	A. 5126	8-8	24-5325	17-0623				33,688	A. 5228	8-4	25-8886	22-4230																																													
32,672	A. 5018	7-1	18-7797	20-7983				R.A. 11 <sup>h</sup> 44 <sup>m</sup>																33,636	A. 5230	8-4	26-0420	15-8688																																					
32,583	W. 4496	8-9	19-3158	9-6211				33,279	A. 5125	5-0	0-6959	10-5723				R.A. 12 <sup>h</sup> 0 <sup>m</sup>																																																	
32,611	W. 4497	8-4	19-8281	12-6407				33,355	A. 5126	8-8	1-7486	17-0609				33,894	W. 4680	9-0	1-3592	12-5503																																													
32,567	W. 4498	8-4	20-0462	8-2456				33,259	W. 4598	9-2	3-7061	8-5324				33,751	W. 4682	8-5	2-4520	0-5416																																													
32,670	A. 5025	8-6	21-4038	21-3995				33,374	A. 5134	8-4	6-1290	18-4358				34,056	A. 5226	8-7	2-9076	23-1422																																													
32,645	A. 5020	8-8	21-9522	16-7503				33,237	W. 4600	9-6	6-3249	4-6963				34,040	A. 5228	8-4	3-1617	22-4058																																													
32,622	A. 5030	8-5	22-2500	14-1176				33,435	A. 5135	8-1	6-3429	23-9803				33,933	A. 5230	8-4	3-2451	15-8508																																													
32,601	W. 4504	8-8	22-5971	10-9580				33,203	W. 4601	9-4	6-6897	0-8756				33,781	W. 4685	8-9	6-0582	2-4756																																													
R.A. 11 <sup>h</sup> 28 <sup>m</sup>																						33,358	A. 5137	9-1	6-7716	17-2871																																							
32,837	W. 4510	9-4	3-2922	9-8462				33,280	W. 4603	7-4	8-1418	10-8882				33,998	A. 5236	9-4	6-7435	19-9608																																													
32,846	W. 4511	8-9	3-5585	11-3638				33,360	A. 5141	8-5	8-3146	17-5357				34,024	A. 5238	9-1	6-9828	20-9280																																													
32,779	W. 4512	8-2	4-2268	3-6260				33,405	A. 5142	7-9	8-4169	20-6948				34,002	A. 5240	8-8	8-4512	21-0926																																													
32,780	W. 4513	8-4	4-3423	5-0233				33,437	A. 5143	8-4	9-2741	23-1491				34,004	A. 5242	9-0	10-0120	19-8692																																													
32,821	W. 4514	9-4	5-1108	8-5890				33,204	W. 4606	9-0	9-2879	24-2887				33,808	W. 4692	8-8	11-9253	4-5212																																													
32,781	W. 4515	9-0	5-4299	3-5595				33,304	W. 4613	9-0	9-7398	0-6460				34,085	A. 5248	8-7	12-4076	25-0986																																													
32,783	W. 4517	9-4	8-2821	3-7456				33,395	A. 5150	8-9	13-0019	12-4373				34,060	A. 5249	8-9	12-5220	22-8365																																													
32,754	W. 4518	9-4	9-2662	4-9359				33,292	W. 4615	9-0	14-2795	10-9427				33,809	W. 4696	9-1	19-0260	5-2045																																													
32,830	W. 4519	9-2	9-7783	9-2530				33,410	A. 5154	8-8	14-3229	20-6251				33,843	W. 4697	7-7	19-6504	8-6242																																													
32,873	A. 5019	8-9	9-9280	15-5959				33,209	W. 4616	8-4	14-5853	1-7078				33,759	W. 4700	8-8	21-1947	0-2870																																													
32,767	W. 4521	9-5	10-5462	2-1048				33,264	W. 4620	8-8	15-4077	25-6003				33,906	W. 4702	8-7	22-1475	13-3067																																													
32,886	A. 5052	8-2	11-0491	16-8220				33,458	A. 5157	8-1	16-3845	17-5771				33,993	A. 5274	8-5	22-4988	19-2519																																													
32,878	W. 4523	9-4	12-0250	0-0680				33,219	W. 4622	8-3	17-0598	15-1829				33,892	W. 4704	8-0	23-2383	15-5707																																													
32,878	A. 5055	8-8	13-3653	14-9177				33,339	A. 5162	8-6	17-5771	18-1208				33,828	W. 4706	8-9	24-7198	6-6968																																													
32,879	A. 5063	9-0	15-0179	15-7608				33,382	A. 5168	8-9	19-1040	20-2039				R.A. 12 <sup>h</sup> 8 <sup>m</sup>																																																	
32,855	W. 4536	9-5	18-7511	11-9127				33,341	A. 5170	8-3	20-2039	15-8403				34,215	W. 4706	8-9	1-8241	6-6940																																													
32,865	W. 4537	9-2	19-2085	13-5580				33,414	A. 5172	7-9	20-2441	20-4349				34,152	W. 4709	8-0	4-2772	0-7737																																													
32,046	A. 5070	8-5	20-0486	24-7783				33,205	W. 4629	8-5	20-2441	20-4349				34,324	A. 5296	8-3	9-2990	15-7804																																													
32,797	W. 4542	8-8	20-7455	5-5026				33,270	W. 4630	8-3	20-3233	1-1678				34,265	W. 4719	8-9	10-2118	11-0711																																													
32,834	W. 4545	9-2	22-6938	9-4729				33,415	A. 5174	7-6	21-8800	20-8210				34,191	W. 4725	9-0	15-6225	3-4265																																													
32,907	A. 5076	9-0	23-4533	18-0256				33,224	W. 4632	9-3	22-6475	2-8805				34,360	A. 5311	8-0	16-1786	20-1744																																													
32,021	A. 5077	8-5	23-7866	21-6781				33,287	W. 4633	9-0	22-7359	10-3873				34,419	A. 5318	8-8	19-0222	22-9974																																													
R.A. 11 <sup>h</sup> 36 <sup>m</sup>																						33,417	A. 5179	8-3	23-3143	20-6427																																							
33,108	A. 5076	9-0	0-6799	18-0358				33,257	W. 4636	8-8	24-0228	7-1393				34,369	A. 5311	8-0	16-1786	20-1744																																													
33,121	A. 5077	8-5	1-0465	21-6846				33,343	A. 5181	9-0	25-1407	15-5540				34,419	A. 5318	8-8	19-0222	22-9974																																													
33,046	W. 4551	8-1	4-5527	8-6818				R.A. 11 <sup>h</sup> 52 <sup>m</sup>																34,298	W. 4730	8-6	20-2080	12-8126																																					
33,135	A. 5084	8-5	5-0607	22-9689				33,662	A. 5179	8-3	0-5691	20-6545				34,339	A. 5321	8-5	20-3903	16-8663																																													
33,104	A. 5085	8-4	5-0818	17-4829				33,715	A. 5180	8-7	1-1696	26-8008				34,158	W. 4732	2-0	20-6386	0-8512																																													
33,006	W. 4564	9-2	8-8302	1-2013				33,506	W. 4638	9-0	1-1320	7-1433				34,404	A. 5330	9-0	24-7827	22-2358																																													
33,145	A. 5091	8-8	9-1073	24-5948				33,619	A. 5181	9-0	1-5211	1-2846				34,261	W. 4736	9-0	25-3755	9-4502																																													
33,115	A. 5092	9-2	9-0741	10-6316				33,541	W. 4646	9-1	2-3406	15-5459				R.A. 12 <sup>h</sup> 16 <sup>m</sup>																																																	
33,092	A. 5091	9-1	9-9505	14-7105				33,508	W. 4649	9-2	7-2558	2-0404				34,691	A. 5330	9-0	2-0546	22-2312																																													
33,093	A. 5099	8-8	11-3446	15-3796				33,561	W. 4650	9-2	7-7067	7-6394				34,591	W. 4736	9-0	2-5094	9-4401																																													
33,049	W. 4568	8-9	11-3540	8-4788				33,564	W. 4658	9-3	11-0978	7-6111				34,647	A. 5334	9-0	4-1100	17-0914																																													
33,147	A. 5100	8-4	11-3683	23-8306				33,585	W. 4660	8-8	13-0733	10-9146				34,631	A. 5336	8-7	4-7541	14-8899																																													
33,065	W. 4569	9-2	11-8574	10-5113				33,567	W. 4665	8-9	15-1273	7-5349				34,650	A. 5345	8-9	8-1393	17-3998																																													
33,011	W. 4572	8-0	13-2853	2-7903				33,650	A. 5205	8-0	15-1879	18-0935				34,681	A. 5346	Var.	8-6065	21-4152																																													
33,020	W. 4574	9-6	14-2430	4-1712																																																													
33,074	W. 4575	9-4	14-5475	11-5906																																																													

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
<b>R.A. 12<sup>h</sup> 16<sup>m</sup> (continued)</b>					<b>R.A. 12<sup>h</sup> 32<sup>m</sup> (continued)</b>					<b>R.A. 12<sup>h</sup> 56<sup>m</sup></b>				
34,682	A. 5348	7.2	8-8297	20-7358	35,303	W. 4849	9.5	18-0580	13-7216	36,168	A. 5580	9.0	3-4025	20-7992
34,683	A. 5351	7.8	9-4552	21-0302	35,215	W. 4850	8.9	18-8801	6-0952	36,028	W. 4946	9.4	4-0112	8-3375
34,598	W. 4757	8.7	14-9990	11-1482	35,375	A. 5460	8.3	19-3404	21-2831	35,978	W. 4949	8.8	6-4523	3-1327
34,575	W. 4759	9.4	17-3940	7-9269	35,395	A. 5470	9.0	19-0411	24-2422	36,205	A. 5588	9.0	8-5366	24-1926
34,666	A. 5371	8.8	19-0082	19-4277	35,238	W. 4853	8.6	20-0388	8-6260	36,206	A. 5593	8.3	9-8925	24-3121
34,549	W. 4766	9.4	19-9581	4-6192	35,180	W. 4854	8.8	20-0453	2-6303	36,092	W. 4954	9.2	9-9626	13-2002
34,519	W. 4767	9.3	20-3488	2-3473	35,206	W. 4855	8.7	21-1717	12-8191	36,026	W. 4957	8.2	12-6683	8-0059
34,688	A. 5376	7.8	20-6570	21-0707	35,181	W. 4856	9.0	21-4293	3-0072	36,005	W. 4960	8.2	13-2081	5-1179
34,719	A. 5377	7.6	21-0845	25-2113	35,325	A. 5475	8.9	21-5534	16-0278	36,007	W. 4963	9.3	14-4815	5-1325
34,709	A. 5384	8.7	23-4596	24-0599	35,366	A. 5477	9.7	22-0554	20-0240	36,071	W. 4966	8.4	17-4364	11-8067
34,695	A. 5389	8.0	25-1864	22-6887	35,217	W. 4850	8.8	22-7006	6-6328	36,165	A. 5610	8.2	17-9210	19-4728
					35,304	A. 5481	9.3	24-2078	14-3627	36,027	W. 4970	9.0	18-0602	7-6532
<b>R.A. 12<sup>h</sup> 24<sup>m</sup></b>					<b>R.A. 12<sup>h</sup> 40<sup>m</sup></b>					35,984	W. 4973	9.0	19-9999	3-8075
34,860	W. 4771	8.7	0-6306	9-4236	35,525	A. 5481	9.3	1-3948	14-3647	35,972	W. 4974	8.5	20-8457	2-0139
35,065	A. 5384	8.7	0-7611	24-0700	35,537	A. 5492	9.2	4-4816	16-4745	36,000	W. 4978	9.4	22-9578	5-4991
34,768	W. 4772	9.4	1-6941	3-2319	35,588	A. 5493	9.1	5-0654	24-4013	35,974	W. 4980	8.6	23-6660	2-6925
35,043	A. 5389	8.0	2-4032	22-6793	35,539	A. 5494	8.9	5-8603	16-8624	36,144	A. 5620	8.7	24-8348	18-3481
34,842	W. 4774	8.9	2-8310	8-3403	35,456	W. 4867	8.8	5-9254	1-4344					
34,819	W. 4775	9.0	2-9318	5-6652	35,503	W. 4870	8.7	7-4259	9-6153					
34,821	W. 4778	8.4	3-8203	5-5251	35,573	A. 5497	8.6	7-5344	20-7879	36,267	W. 4980	8.6	0-7572	2-7003
35,044	A. 5391	8.0	5-3976	22-1561	35,549	A. 5499	8.6	8-0853	16-8716	36,386	A. 5620	8.7	2-0648	18-3431
34,893	W. 4782	8.1	7-4203	11-3110	35,505	W. 4874	7.9	9-0882	9-8485	36,326	W. 4985	8.2	2-8480	9-7101
34,921	W. 4784	9.4	8-3622	13-6824	35,502	A. 5502	9.2	9-3600	17-5300	36,368	A. 5622	8.6	2-9119	16-5018
34,865	W. 4785	8.2	8-9250	9-1812	35,542	A. 5504	8.5	9-4123	19-2503	36,335	W. 4987	9.2	3-3559	12-4344
..	W. 4787	8.2	9-0941	0-1086	35,559	A. 5504	8.5	9-4123	19-2503	36,348	W. 4989	9.2	4-2660	13-0021
34,922	W. 4788	8.0	9-4299	13-6794	35,514	W. 4876	8.1	10-8253	12-4284	36,387	A. 5625	8.6	4-7833	17-9834
35,002	A. 5401	8.8	10-3492	18-9272	35,467	W. 4878	8.0	11-4659	3-7581	36,431	A. 5629	8.8	7-2652	24-2289
35,077	A. 5402	9.5	10-4168	25-2960	35,516	W. 4879	9.4	12-1644	11-6478	36,303	W. 4994	8.4	8-7245	6-6420
34,878	W. 4792	9.0	11-0017	9-8655	35,560	A. 5516	9.4	15-0566	19-3023	36,397	A. 5632	8.0	8-8324	19-0226
34,754	W. 4795	9.4	12-0151	1-4224	35,499	W. 4885	8.3	16-2403	9-0734	36,293	W. 4996	9.4	10-6025	5-4929
34,830	W. 4801	8.9	15-8311	5-6661	35,552	A. 5520	8.6	17-1004	16-8729	36,269	W. 5001	8.6	12-3143	2-7153
34,958	A. 5410	9.3	16-2468	15-2505	35,553	A. 5524	6.7	18-0558	18-5040	36,384	A. 5647	9.0	15-3934	17-3950
35,005	A. 5411	9.1	16-3318	18-8918	35,554	A. 5526	8.5	19-5345	17-8885	36,350	W. 5006	9.3	15-8528	12-5529
35,084	A. 5417	7.3	18-5167	25-5058	35,562	A. 5527	9.3	20-1329	19-2606	36,295	W. 5009	9.6	16-7111	5-3852
34,786	W. 4806	8.9	18-7078	2-0936	35,495	W. 4891	9.2	21-0343	7-5180	36,434	A. 5651	9.1	17-6149	24-5754
34,992	A. 5418	9.0	18-6802	18-3439						36,372	A. 5653	8.7	18-1640	16-2494
34,984	A. 5422	8.7	22-1816	17-8108	<b>R.A. 12<sup>h</sup> 48<sup>m</sup></b>					36,422	A. 5654	9.3	19-1530	22-2942
34,964	A. 5423	8.5	22-4533	15-3206	35,786	W. 4904	9.2	5-0298	13-5221	36,285	W. 5013	9.2	19-6954	4-6427
34,884	W. 4814	8.8	22-6825	10-5973	35,836	A. 5547	9.2	5-1270	17-1290	36,436	A. 5658	9.3	22-5518	23-9943
34,913	W. 4816	8.9	23-5048	12-2308	35,797	A. 5549	9.1	6-5020	14-3323	36,391	A. 5659	9.2	22-8950	18-1925
<b>R.A. 12<sup>h</sup> 32<sup>m</sup></b>					35,697	W. 4907	8.9	6-6135	4-7885	36,377	A. 5664	7.2	24-6832	16-5815
35,268	W. 4816	8.9	0-6689	12-2410	35,665	W. 4910	9.4	7-6764	1-8879	..	W. 5019	8.4	24-6933	16-5648
35,186	W. 4818	8.5	2-7123	3-9158	35,849	A. 5551	8.5	9-0943	17-7974	<b>R.A. 13<sup>h</sup> 12<sup>m</sup></b>				
35,171	W. 4819	8.8	3-1560	3-0591	35,687	W. 4915	9.0	9-7815	4-1239	36,034	A. 5664	7.2	1-8042	16-5784
35,229	W. 4823	8.1	4-2283	8-7223	35,741	W. 4916	9.2	10-4986	8-8600	..	W. 5019	8.4	1-9041	16-5617
35,559	A. 5440	9.8	5-0315	19-7717	35,667	W. 4917	9.2	10-5439	1-9081	36,522	W. 5023	9.2	5-2345	3-6749
35,230	W. 4826	9.4	6-3935	8-3422	35,653	W. 4919	9.4	11-7036	1-1938	36,071	A. 5670	8.9	6-1960	19-0777
35,493	A. 5447	9.2	9-3273	25-1444	35,776	W. 4921	8.5	12-8609	12-4733	36,693	A. 5672	8.8	6-9321	21-0934
35,333	A. 5450	9.6	10-2710	17-0606	35,721	W. 4926	9.0	15-0058	6-0957	36,648	A. 5673	8.8	6-9883	17-6981
35,287	W. 4835	9.6	10-7585	12-7078	35,722	W. 4927	8.6	15-0826	6-9388	36,504	W. 5027	9.1	7-3662	0-3043
35,343	A. 5453	8.7	11-5662	18-4136	35,906	A. 5564	9.1	17-5619	23-2888	36,542	W. 5032	9.2	12-3367	5-4981
35,406	A. 5457	8.6	14-2547	25-3368	35,921	A. 5565	9.0	18-1527	24-1768	36,584	W. 5037	9.2	15-2700	10-5478
35,315	A. 5461	8.7	15-8772	14-5857	35,789	W. 4929	9.4	18-5109	13-0535	36,586	W. 5039	5.0	16-3681	10-0475
35,177	W. 4844	9.4	16-6249	2-7414	35,874	A. 5568	9.1	19-2206	20-0904	36,615	W. 5043	9.4	19-2831	13-0743
35,292	W. 4845	8.7	17-0243	12-8374	35,658	W. 4930	9.3	19-2287	0-6451	36,616	W. 5044	9.2	19-6682	12-9992
35,248	W. 4846	9.0	17-3480	9-4117	35,817	A. 5572	9.2	21-3288	15-5484	36,640	A. 5695	9.1	20-2933	16-3435
35,165	W. 4847	9.3	17-7465	2-0421	35,749	W. 4935	9.0	21-3533	9-4439	36,577	W. 5050	9.0	21-6000	8-7770
35,234	W. 4848	9.0	17-9361	8-2056	35,682	W. 4933	9.2	21-3725	2-6464	36,608	W. 5052	8.4	22-2648	11-8033
					35,792	W. 4942	8.9	23-2674	13-5996	36,721	A. 5702	7.0	24-6956	24-6180



Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.																															
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.																														
R.A. 13 <sup>h</sup> 20 <sup>m</sup>															R.A. 13 <sup>h</sup> 44 <sup>m</sup>															R.A. 14 <sup>h</sup> 0 <sup>m</sup> (continued)														
37.035	A. 5702	7.0	1.9932	24.6141	37.754	W. 5175	9.4	0.6695	8.0871	39.113	W. 5282	8.9	18.8757	7.1832																														
36.937	A. 5703	7.6	2.7553	15.6398	37.925	A. 5813	8.3	1.4592	22.9940	39.207	W. 5283	9.4	19.4393	18.1682																														
36.847	W. 5058	9.2	3.5723	5.8841	37.695	W. 5180	9.1	2.2267	3.9544	39.199	A. 5941	9.1	20.8999	17.7014																														
36.858	W. 5061	9.3	5.4974	7.5212	37.741	W. 5181	8.8	3.9917	7.1079	39.086	W. 5287	8.8	22.6140	4.1578																														
36.857	W. 5062	8.8	5.5006	7.0928	37.755	W. 5183	9.5	5.8081	7.7522	39.245	A. 5944	6.8	22.8878	22.2547																														
37.037	A. 5709	9.4	5.5111	24.3721	37.711	W. 5184	9.0	6.1317	4.8990	39.165	W. 5288	8.3	23.0423	13.3476																														
36.885	W. 5063	9.1	5.8843	10.2785	37.913	A. 5821	6.8	6.6550	22.0725						R.A. 14 <sup>h</sup> 8 <sup>m</sup>																													
36.870	W. 5064	8.9	6.0063	9.1452	37.929	A. 5824	9.0	7.0077	23.0766	39.355	W. 5290	9.0	4.5998	7.2366																														
36.832	W. 5065	6.8	6.2964	3.5498	37.712	W. 5187	6.5	7.2170	5.3191	39.440	A. 5951	8.7	4.9176	16.1266																														
36.844	W. 5067	9.1	6.4746	4.9452	37.797	W. 5186	8.6	7.2183	10.7225	39.312	W. 5294	8.9	5.5570	3.0254																														
37.000	A. 5711	9.0	6.5964	21.1518	37.673	W. 5189	9.2	8.1721	1.9857	39.478	A. 5952	8.6	5.7799	21.0839																														
37.007	W. 5074	8.7	8.6136	9.7697	37.834	A. 5831	7.3	8.6640	13.8877	39.510	A. 5955	8.8	6.8709	19.5660																														
36.903	W. 5077	9.2	10.0547	11.4251	37.895	A. 5834	9.4	11.1967	20.6211	39.462	W. 5297	7.9	7.9849	19.5660																														
36.920	W. 5082	9.0	13.7087	13.7854	37.656	W. 5193	9.2	11.5646	0.6231	39.347	W. 5298	9.0	8.3853	5.9335																														
36.997	A. 5722	9.0	14.2545	20.0479	37.775	W. 5197	5.0	14.2475	8.6329	39.365	A. 5959	9.0	9.4447	7.7833																														
36.943	A. 5731	8.7	17.9018	15.0577	37.715	W. 5198	9.2	14.4415	5.0897	39.442	A. 5959	9.0	9.7273	16.3149																														
36.854	W. 5088	7.7	18.1778	5.9094	37.933	A. 5842	8.9	14.9213	23.2680	39.370	W. 5309	9.4	14.9459	7.7861																														
36.861	W. 5091	8.9	19.3488	7.1752	37.950	A. 5846	8.2	15.8668	23.9647	39.304	W. 5310	8.3	15.0182	0.9500																														
36.890	W. 5093	9.3	20.4771	10.4232	37.802	W. 5201	9.0	19.0108	11.3595	39.398	W. 5312	9.0	15.8214	11.4999																														
37.012	A. 5735	9.2	21.5925	21.6066	37.850	A. 5856	7.0	22.0839	15.6037	39.406	W. 5313	8.9	16.5815	12.5607																														
36.881	W. 5095	9.3	22.7800	9.3276	37.851	A. 5857	9.0	22.5741	15.1819	39.434	A. 5967	8.6	16.9530	14.8310																														
36.948	A. 5738	6.5	24.6409	15.5647						R.A. 13 <sup>h</sup> 52 <sup>m</sup>					39.392	W. 5315	6.3	18.3983	9.8159																									
R.A. 13 <sup>h</sup> 28 <sup>m</sup>															38.178	A. 5862	8.8	2.9567	21.1261	39.407	W. 5319	9.0	20.2533	12.5053																				
37.245	A. 5738	6.5	1.8400	15.5621	38.060	W. 5216	8.4	4.5704	6.6673	39.428	A. 5974	6.5	23.9737	14.4828																														
37.292	A. 5743	8.9	3.9266	19.2533	38.024	W. 5217	8.8	5.4121	3.9166	39.420	W. 5324	9.2	23.9270	13.3627																														
37.343	A. 5747	9.0	5.4179	23.4634	38.242	A. 5869	9.1	5.7579	25.9858	39.344	W. 5325	9.1	24.0977	4.4934																														
37.373	A. 5748	7.5	5.9459	25.5316	38.193	A. 5871	7.2	6.0293	21.7231	39.517	A. 5979	9.3	24.1385	25.2927																														
37.223	W. 5100	8.6	6.2036	13.0164	38.208	A. 5872	9.0	6.2220	23.0248						R.A. 14 <sup>h</sup> 16 <sup>m</sup>																													
37.309	A. 5750	9.1	6.8672	19.8516	38.096	W. 5222	8.2	8.2077	10.1128	39.675	W. 5324	9.2	1.1040	13.3678																														
37.246	A. 5751	6.0	9.1614	15.5642	38.197	A. 5881	8.1	10.1238	21.9136	39.597	W. 5325	9.1	1.1783	4.4973																														
37.111	W. 5106	9.2	10.1639	1.6552	38.110	W. 5227	9.4	12.3503	12.4911	39.813	A. 5979	9.3	1.4435	25.2951																														
37.329	A. 5756	8.7	10.1558	22.0965	38.146	A. 5892	9.1	14.7335	15.6164	39.585	W. 5329	8.8	3.7423	4.2712																														
37.131	W. 5109	9.1	11.2273	3.9159	38.129	A. 5893	9.1	15.1858	14.5548	39.753	A. 5984	9.0	4.0213	20.4397																														
37.330	A. 5758	8.7	11.0265	21.8705	38.017	W. 5234	8.8	16.0000	2.6605	39.587	W. 5330	9.1	4.3632	3.7000																														
37.225	W. 5112	9.2	13.2872	12.9676	38.018	W. 5236	8.8	17.2619	2.7223	39.706	A. 5986	6.5	4.7554	16.0553																														
37.312	A. 5763	8.5	15.7232	20.1384	38.088	W. 5237	9.0	17.4210	8.4456	39.687	A. 5989	8.0	7.0108	13.7628																														
37.377	A. 5771	9.0	21.6053	25.9428	38.141	A. 5808	7.1	17.4846	14.0477	39.564	W. 5340	8.6	9.9965	1.8284																														
R.A. 13 <sup>h</sup> 36 <sup>m</sup>															38.039	W. 5239	9.1	18.9689	5.2419	39.795	A. 5992	8.2	10.9748	23.4985																				
37.582	A. 5781	8.4	3.7097	21.1725	38.142	A. 5904	9.0	21.7953	15.3078	39.553	W. 5341	8.8	11.2327	1.2510																														
37.412	W. 5138	9.0	4.4532	4.5709	38.090	W. 5244	9.4	22.8659	8.5439	39.603	W. 5342	8.9	11.5423	5.0077																														
37.584	A. 5787	9.2	4.5852	21.1300						R.A. 14 <sup>h</sup> 0 <sup>m</sup>					39.743	A. 5994	8.3	11.6275	19.4049																									
37.503	W. 5146	9.2	8.9934	11.5954	39.097	W. 5246	8.6	2.6448	5.9394	39.721	A. 5995	9.0	12.3565	17.2752																														
37.494	W. 5147	8.9	9.5888	0.7183	39.068	W. 5251	8.8	4.4571	4.0114	39.796	A. 5998	8.9	12.7521	23.6208																														
37.444	W. 5150	8.2	11.3810	4.4314	39.187	A. 5915	9.2	6.5358	15.5903	39.623	W. 5346	9.2	12.9361	6.9401																														
37.576	A. 5798	8.0	13.8481	20.5705	39.056	W. 5253	9.2	6.5432	2.0747	39.724	A. 6002	9.0	14.1348	17.0813																														
37.513	W. 5153	8.6	13.8719	13.5715	39.077	W. 5254	9.0	6.7017	3.9560	39.631	W. 5350	9.2	16.7209	8.2224																														
37.414	W. 5154	8.6	14.1159	1.5662	39.098	W. 5255	9.0	8.8908	5.5869	39.555	W. 5351	9.1	17.3028	1.3937																														
37.612	A. 5799	7.7	14.2738	18.7505	39.002	W. 5263	9.0	12.3494	5.1247	39.632	W. 5352	9.0	17.5045	8.1678																														
37.612	A. 5802	8.0	15.7313	23.7087	39.102	W. 5267	9.2	12.5277	6.1059	39.644	W. 5357	9.1	21.6514	8.7690																														
37.462	W. 5161	8.6	18.4430	7.1030	39.122	W. 5268	8.8	13.4271	8.1075	39.802	A. 6019	9.1	22.2487	23.4871																														
37.472	W. 5164	9.1	19.5021	8.0309	39.123	W. 5269	9.0	13.4451	8.2126	39.823	A. 6026	9.0	24.9733	25.8579																														
37.457	W. 5170	8.2	21.8603	6.2301	39.147	W. 5270	9.1	13.6450	11.0231						R.A. 14 <sup>h</sup> 24 <sup>m</sup>																													
37.438	W. 5174	8.6	22.4896	3.5535	39.062	W. 5272	8.7	15.0492	1.5231	40.028	A. 6026	9.0	2.2843	25.8508																														
37.570	A. 5811	9.1	23.0037	20.3898	39.081	W. 5273	9.0	15.2603	3.5316	39.969	A. 6031	8.8	4.5733	17.4502																														
37.474	W. 5175	9.4	23.5503	8.0780	39.055	W. 5277	7.8	16.0873	0.7437	39.867	W. 5363	8.2	5.6769	3.4319																														
37.614	A. 5813	8.3	24.1791	22.9920	39.094	W. 5279	9.1	16.7042	5.3240	39.929	W. 5364	9.1	5.8566	12.2219																														
37.440	W. 5180	9.1	25.1519	3.0614	39.242	A. 5933	7.8	17.6503	22.6889																																			
					39.189	A. 5935	8.8	18.5279	16.5466																																			

Reference No.				Mag.				Standard co-ordinates, 1900-0.							
Hyd.		Wash. or Alg.		ξ'.		η'.		Hyd.		Wash. or Alg.		ξ'.		η'.	
R.A. 14 <sup>h</sup> 24 <sup>m</sup> (continued)															
39,931	W. 5366	9-2	6-9191	12-4401											
40,010	A. 6038	9-3	8-0908	22-0965											
40,019	A. 6039	9-0	8-5288	23-1006											
39,994	A. 6042	9-3	9-5386	21-0807											
39,869	W. 5373	9-1	10-7139	2-5880											
39,862	W. 5375	9-2	10-9398	1-9406											
39,996	A. 6047	9-2	11-8916	21-2890											
39,960	A. 6049	9-0	12-8143	16-0197											
39,918	W. 5379	9-0	12-8458	10-6926											
39,999	A. 6051	8-9	13-6123	21-7949											
39,907	W. 5381	9-5	13-6509	7-7203											
39,963	A. 6063	9-0	10-1957	16-1422											
39,895	W. 5393	8-7	21-0490	6-2812											
39,973	A. 6067	8-4	21-4389	17-5813											
40,024	A. 6070	8-9	24-3538	23-2554											
40,016	A. 6072	8-9	24-9861	22-1426											
R.A. 14 <sup>h</sup> 32 <sup>m</sup>															
40,307	A. 6070	8-9	1-6368	23-2554											
40,209	A. 6072	8-9	2-2507	22-1057											
40,337	A. 6074	8-4	3-2399	25-9793											
40,115	W. 5402	9-2	3-3995	2-5037											
40,300	A. 6075	8-4	3-4518	22-4664											
40,273	A. 6079	9-1	6-6849	17-6535											
40,134	W. 5407	9-3	7-7241	4-2788											
40,178	W. 5408	Var.	7-9798	8-1898											
40,283	A. 6081	9-0	8-2662	19-4286											
40,275	A. 6085	9-3	10-6055	17-8081											
40,220	W. 5410	9-3	11-7715	11-7530											
40,231	W. 5411	9-4	11-9708	12-6973											
40,154	W. 5413	9-4	13-6165	5-5454											
40,156	W. 5416	9-0	15-6437	6-3035											
40,333	A. 6098	8-7	17-6956	25-2917											
40,146	W. 5418	9-2	17-8024	4-6027											
40,170	W. 5420	8-8	18-2127	6-4688											
40,105	W. 5422	8-8	19-6868	1-2413											
40,105	A. 6106	9-0	20-4146	24-2453											
40,319	Var.		21-0352	3-7400											
40,148	W. 5426	9-2	21-5239	5-2761											
40,185	W. 5428	9-4	22-2505	7-5635											
40,267	A. 6110	8-9	22-5714	17-4531											
40,261	A. 6116	8-4	25-0093	15-9356											
R.A. 14 <sup>h</sup> 40 <sup>m</sup>															
40,562	A. 6116	8-4	2-2133	15-9290											
40,453	W. 5435	9-0	3-5345	5-7653											
40,506	W. 5437	8-7	4-0629	11-6624											
40,498	W. 5440	9-2	4-1770	10-4953											
40,507	W. 5441	9-0	4-7425	12-0254											
40,623	A. 6119	7-4	4-8834	23-6452											
40,595	A. 6123	9-1	6-7726	20-4951											
40,586	A. 6125	8-5	7-1395	19-3439											
40,473	W. 5446	8-8	12-2507	7-9376											
40,606	A. 6134	9-0	12-8972	20-8021											
40,514	W. 5449	8-4	13-6499	12-0261											
40,434	W. 5450	8-0	13-8480	4-3044											
40,588	A. 6136	8-1	13-8666	19-4984											
40,589	A. 6138	8-2	14-2320	10-6933											
40,573	A. 6140	9-3	14-6764	17-6148											
R.A. 14 <sup>h</sup> 40 <sup>m</sup> (continued)															
40,423	W. 5455	9-2	16-1882	2-3554											
40,634	A. 6147	8-9	16-5024	24-0797											
40,544	A. 6150	9-0	18-0075	13-7799											
40,484	W. 5458	9-2	21-2935	8-6694											
..	W. 5460	8-0	21-4577	0-0696											
40,591	A. 6156	8-6	24-5726	19-3465											
R.A. 14 <sup>h</sup> 48 <sup>m</sup>															
40,901	A. 6156	8-6	1-8134	19-3445											
40,811	W. 5472	9-1	3-4291	11-7907											
40,882	A. 6164	8-7	4-0392	18-3013											
40,934	A. 6165	8-7	4-0840	22-6030											
40,855	A. 6167	8-4	1-2914	15-6142											
40,959	A. 6171	8-3	5-5224	25-8110											
40,902	A. 6172	8-1	6-0029	19-0597											
40,794	W. 5481	9-1	6-6489	10-5551											
40,758	W. 5482	8-8	6-7801	6-5705											
40,738	W. 5483	8-9	6-8623	4-6321											
40,865	A. 6173	9-2	6-8981	16-2153											
40,840	A. 6174	8-0	7-0977	14-2329											
40,739	W. 5487	7-9	7-2413	5-4905											
40,812	W. 5491	7-3	7-0867	12-3246											
40,711	W. 5494	8-8	8-5391	2-1638											
40,750	W. 5495	8-8	8-7771	5-9868											
40,961	A. 6179	8-9	9-2566	25-3629											
40,870	A. 6181	8-3	11-5602	15-9995											
40,929	A. 6185	8-2	12-0015	21-8625											
40,876	A. 6188	9-3	13-4632	17-2088											
40,906	A. 6190	9-2	14-0944	19-5561											
40,800	W. 5505	8-8	17-5496	10-0504											
40,818	W. 5510	8-8	19-3194	12-5363											
40,908	A. 6196	8-0	20-6103	19-2030											
40,766	W. 5520	9-3	24-3355	7-3641											
40,780	W. 5522	9-1	24-8894	8-3617											
R.A. 14 <sup>h</sup> 56 <sup>m</sup>															
41,061	W. 5520	9-3	1-4470	7-3651											
41,077	W. 5522	9-1	2-0116	8-3567											
41,003	W. 5524	7-4	2-9392	0-5711											
41,040	W. 5527	8-6	4-6648	4-3545											
41,225	A. 6208	9-3	5-3175	24-1989											
41,236	A. 6211	8-5	6-4585	25-1127											
41,226	A. 6215	8-0	7-4979	23-8792											
41,141	A. 6218	8-0	9-3835	15-7509											
41,128	A. 6220	9-1	10-2341	13-5918											
41,217	A. 6224	8-4	12-5703	23-4169											
41,160	A. 6225	7-8	12-6214	17-8881											
41,083	W. 5540	9-2	13-8367	8-8722											
41,084	W. 5541	9-3	13-9766	9-0955											
41,229	A. 6234	9-2	16-0787	24-2722											
41,129	A. 6235	9-1	16-1566	13-6053											
41,067	W. 5544	9-2	16-1795	7-8502											
41,034	W. 5548	8-1	17-2601	3-8663											
41,057	W. 5555	8-3	21-2602	7-1679											
41,058	W. 5556	8-9	21-3489	7-1700											
41,136	A. 6242	9-1	22-3090	15-3870											
41,148	A. 6245	8-9	23-4844	15-8661											
41,060	W. 5559	8-9	23-4846	6-8957											
R.A. 15 <sup>h</sup> 4 <sup>m</sup>															
41,462	A. 6245	8-9	0-6877	15-8760											
41,562	A. 6251	7-8	3-2532	24-8902											
41,528	A. 6252	9-0	3-3084	22-082											

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ'.	η'.			Hyd.	Wash. or Alg.			ξ'.	η'.	Hyd.	Wash. or Alg.
R.A. 15 <sup>h</sup> 20 <sup>m</sup> (continued)														
42,117	A. 6367	9.2	8.6357	22.0155	43,037	W. 5762	9.3	2.5535	11.3249	43,509	W. 5877	9.2	23.5957	0.9612
41,938	W. 5652	9.3	8.7597	3.2533	43,159	A. 6517	8.9	2.8015	25.6665	..	W. 5878	8.8	23.8547	0.0783
41,907	W. 5653	9.3	9.1505	0.4853	43,038	W. 5763	9.2	3.3921	10.9772	43,649	A. 6678	6.7	24.8705	13.9341
42,118	A. 6371	9.1	10.0252	21.8292	43,124	A. 6519	8.8	5.1262	22.8827	R.A. 16 <sup>h</sup> 0 <sup>m</sup> (continued)				
42,021	A. 6374	9.2	10.5742	13.2804	43,070	A. 6521	8.7	5.7465	14.9445	R.A. 16 <sup>h</sup> 8 <sup>m</sup>				
42,049	A. 6378	8.0	13.5503	14.9644	43,034	W. 5768	8.3	6.1841	10.3713	43,801	W. 5877	9.2	0.6382	0.9701
42,065	A. 6380	9.3	14.1829	15.8390	43,062	W. 5772	9.4	8.3133	6.6051	43,802	W. 5878	8.8	0.8877	0.0852
41,981	W. 5664	8.9	14.9736	8.7954	43,133	A. 6533	8.3	9.8256	23.9064	43,935	A. 6678	6.7	2.0529	13.9292
41,982	W. 5668	9.2	16.1600	8.7778	43,086	A. 6539	7.9	11.1843	17.7636	43,904	W. 5883	8.4	5.8753	11.2772
42,007	A. 6387	9.2	18.2661	5.8607	43,133	A. 6533	8.3	9.8256	23.9064	43,897	W. 5884	9.1	6.6065	9.8812
42,074	A. 6395	8.2	21.5692	17.5225	43,017	W. 5780	7.4	13.4280	8.1572	43,929	A. 6696	7.5	8.0600	12.6791
42,149	A. 6399	9.0	23.4260	25.7364	43,043	W. 5783	8.0	13.9277	11.0418	43,978	A. 6697	7.7	8.1778	22.6411
41,933	W. 5681	7.2	24.2475	2.1778	42,985	W. 5784	9.0	14.8410	4.0023	43,966	W. 5892	8.3	12.0976	11.1372
42,043	A. 6402	9.0	25.1620	14.1644	42,986	W. 5785	9.2	15.1478	4.2631	43,866	W. 5895	9.0	13.4516	6.7919
R.A. 15 <sup>h</sup> 28 <sup>m</sup>														
42,534	A. 6399	9.0	0.7357	25.7469	42,964	W. 5786	8.3	15.2270	1.5340	43,906	W. 5896	9.0	13.9380	12.3135
42,215	W. 5681	7.2	1.3031	2.1798	43,056	A. 6548	9.2	15.5119	12.8342	43,971	W. 5896	9.0	13.9380	12.3135
42,399	A. 6402	9.0	2.3469	14.1562	43,095	A. 6549	9.1	15.5671	17.9477	43,971	A. 6711	8.4	14.1915	19.9463
42,466	A. 6408	7.8	5.4125	18.9345	43,035	W. 5789	8.9	16.4831	9.9211	43,820	W. 5898	9.1	14.3292	2.9640
42,491	A. 6412	8.7	8.0623	14.7505	43,110	A. 6556	7.0	18.3366	20.6456	43,908	A. 6714	7.0	15.5120	16.3498
42,538	A. 6417	8.6	9.6885	25.7619	43,067	A. 6558	7.1	20.2308	14.6494	43,998	A. 6715	9.3	15.5180	24.1303
42,395	W. 5697	8.8	10.4214	8.0761	..	W. 5797	9.0	20.7151	0.2111	43,957	A. 6725	8.4	20.2600	17.1878
42,279	W. 5698	9.2	10.6117	6.0733	43,141	A. 6560	9.2	22.5803	23.1272	43,958	A. 6726	9.0	21.1674	17.3684
42,222	W. 5704	8.4	13.8750	2.4850	R.A. 15 <sup>h</sup> 52 <sup>m</sup>									
42,270	W. 5708	8.5	15.1920	5.3454	43,402	A. 6567	7.0	2.1263	20.8778	44,066	W. 5915	8.0	3.5510	2.7148
42,507	A. 6431	8.8	15.1980	21.6206	43,205	W. 5805	9.3	6.5821	0.5394	44,237	A. 6741	6.9	6.6996	20.0369
42,474	A. 6438	8.9	17.4220	19.8183	43,300	A. 6578	8.5	6.9105	18.9768	44,238	A. 6743	8.8	7.4391	20.5835
42,435	A. 6439	8.6	17.5683	17.0758	43,289	W. 5810	8.9	8.0038	8.0712	44,083	W. 5924	9.2	8.1065	4.0259
42,224	W. 5710	9.0	18.1542	1.8903	43,323	W. 5811	9.2	8.1310	12.6662	44,201	A. 6746	8.3	8.5139	15.0594
42,249	W. 5711	9.1	18.3170	3.8762	43,323	A. 6581	9.0	8.5071	13.6371	44,126	A. 6750	7.9	9.2799	18.3985
42,517	A. 6441	9.1	19.3382	22.2668	43,343	A. 6593	9.3	14.7766	15.2571	44,218	W. 5927	9.2	11.0081	6.4797
42,273	W. 5714	9.4	21.0601	5.3764	43,333	A. 6593	9.3	14.7766	15.2571	44,214	A. 6755	9.1	13.2378	16.9647
42,527	A. 6447	9.1	21.4393	23.1676	43,233	W. 5830	9.2	14.7999	2.3325	..	W. 5928	9.0	16.2324	0.0103
42,380	A. 6453	8.1	23.0170	13.0774	43,278	W. 5831	8.8	15.0358	6.5073	44,230	A. 6760	9.1	16.7864	19.2433
42,328	W. 5717	9.1	23.0230	9.4835	43,235	W. 5833	9.2	15.8915	3.0254	44,134	W. 5932	9.1	20.6321	7.1708
42,528	A. 6457	8.6	24.3011	23.9831	43,210	W. 5835	8.8	17.5604	1.0274	44,108	W. 5936	8.8	21.4016	4.9537
R.A. 15 <sup>h</sup> 36 <sup>m</sup>														
42,898	A. 6457	8.6	1.5919	23.9837	43,248	W. 5839	9.2	21.5712	3.6176	R.A. 16 <sup>h</sup> 24 <sup>m</sup>				
42,647	W. 5726	9.3	3.2349	3.8005	43,497	A. 6609	9.1	22.1333	21.1816	44,400	A. 6770	8.7	4.0936	23.8710
42,776	A. 6465	8.4	3.8514	14.4682	43,456	A. 6612	9.0	22.2754	25.1674	44,380	A. 6771	5.0	5.0967	15.7680
42,655	W. 5731	7.8	4.4212	5.0534	R.A. 16 <sup>h</sup> 0 <sup>m</sup>									
42,909	A. 6468	5.8	4.9154	24.6895	43,575	W. 5844	9.1	3.9736	8.0199	44,330	W. 5940	8.3	5.1474	7.5123
42,751	W. 5734	9.2	6.7095	12.8326	43,617	W. 5845	8.9	4.1280	11.7314	44,324	W. 5941	9.2	7.6129	4.6800
42,752	A. 6475	9.1	6.7302	13.2156	43,576	W. 5847	9.3	4.3089	8.3966	44,334	W. 5943	8.8	7.9781	8.4688
42,738	W. 5737	9.2	9.2050	11.7940	43,522	W. 5848	9.2	4.8175	2.8247	44,350	W. 5945	8.1	10.0606	10.1531
42,712	W. 5738	9.0	9.7099	9.7335	43,626	A. 6624	8.3	5.9916	12.9164	44,318	W. 5946	9.0	10.0908	4.0496
42,608	W. 5741	9.2	10.7152	0.7022	43,715	A. 6630	8.9	7.9598	22.9239	..	W. 5948	9.3	10.0512	0.3633
42,835	A. 6487	9.1	11.3038	18.0326	43,717	A. 6632	8.2	10.1852	23.5971	44,370	A. 6776	8.8	12.6211	13.2287
42,818	A. 6489	9.0	13.1096	18.2374	43,662	A. 6637	6.8	10.9668	16.1789	44,389	A. 6777	8.1	12.7173	18.4438
42,627	W. 5745	9.0	14.3960	1.6587	43,667	A. 6641	9.1	11.9704	17.6757	44,353	W. 5955	9.0	14.4121	10.4135
42,795	A. 6499	7.7	15.5741	16.4410	43,668	A. 6651	8.9	14.8467	17.6279	44,376	A. 6779	8.9	14.7934	14.4188
42,670	W. 5749	9.2	16.9413	5.5448	43,588	W. 5863	9.0	17.2908	8.9995	44,331	W. 5961	8.6	18.3584	6.9724
42,686	W. 5752	9.4	18.9864	6.8322	43,581	W. 5864	8.9	17.4195	8.2693	44,354	W. 5962	9.3	20.4607	10.4762
42,826	A. 6511	9.2	21.0673	18.2312	43,645	A. 6661	7.7	17.5446	14.1763	R.A. 16 <sup>h</sup> 32 <sup>m</sup>				
42,674	W. 5757	9.3	22.0493	5.6478	43,634	A. 6666	7.0	19.7176	12.6760	44,452	W. 5970	Var.	2.9548	0.4311
42,882	A. 6513	7.7	23.3495	22.5365	43,694	A. 6671	7.6	22.2421	21.7748	44,541	A. 6793	8.9	4.0547	14.1426
					43,518	W. 5876	9.0	23.5119	2.0428	44,569	A. 6796	8.4	6.4245	18.5999

Reference No.				Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.		ξ.		η.	
R.A. 16 <sup>h</sup> 32 <sup>m</sup> (continued)							
44,561	A. 6798	8-8	8-0928	17-2408			
44,599	A. 6800	8-9	9-3091	25-8487			
44,456	W. 5981	8-8	10-8484	0-4643			
44,476	W. 5983	9-2	11-8682	4-0688			
44,545	A. 6806	8-6	12-3406	15-0228			
44,534	A. 6809	7-9	14-9295	13-2349			
44,574	A. 6810	7-2	15-1413	20-5051			
44,509	W. 5990	9-1	15-8447	9-3701			
44,504	A. 6812	8-9	16-4341	16-0952			
44,472	W. 5995	9-2	21-4709	2-4250			
44,520	W. 6000	7-6	23-0154	11-3958			
44,506	W. 6001	5-0	23-8353	7-6121			
44,578	A. 6821	9-0	24-7470	22-0043			
R.A. 16 <sup>h</sup> 40 <sup>m</sup>							
44,641	W. 6001	5-0	0-9496	7-6181			
44,743	A. 6821	9-0	2-0165	22-0000			
44,698	A. 6828	8-6	5-7519	10-2359			
44,627	W. 6007	9-3	7-1080	4-9209			
44,671	A. 6832	8-8	7-6179	12-8502			
44,710	A. 6833	7-2	8-0373	17-2457			
44,617	W. 6012	9-0	8-4834	4-9540			
44,712	A. 6840	8-9	11-9917	16-0556			
44,760	A. 6841	7-4	12-0191	24-4313			
44,612	W. 6015	9-1	14-3622	2-9593			
44,633	W. 6017	8-7	15-1795	5-9258			
44,646	W. 6018	9-3	15-3577	7-4362			
44,735	A. 6844	8-6	15-3458	20-2689			
44,667	A. 6850	8-7	21-0768	12-1666			
44,790	A. 6864	8-2	22-6372	25-9966			
44,752	A. 6866	7-9	23-4055	22-0439			
44,686	A. 6867	8-6	24-3249	14-0628			
44,668	A. 6869	9-0	25-3020	12-4830			
R.A. 16 <sup>h</sup> 48 <sup>m</sup>							
44,911	W. 6032	9-0	0-7314	14-0647			
44,904	A. 6867	8-6	1-5087	14-0636			
44,801	W. 6035	9-6	4-2700	1-1277			
45,014	A. 6871	9-0	4-3758	23-5613			
45,046	A. 6875	7-7	5-3765	25-1961			
44,873	W. 6037	8-4	6-1165	10-2280			
44,849	W. 6038	9-0	7-9077	6-0609			
45,047	A. 6881	8-8	8-3495	24-9276			
45,002	A. 6891	8-1	13-2941	21-8878			
44,885	W. 6046	8-2	13-4008	10-7256			
44,976	A. 6892	8-6	13-5019	19-9396			
44,992	A. 6900	7-4	16-5756	21-6633			
44,879	W. 6051	8-9	19-2871	9-9535			
44,907	A. 6907	8-4	20-9186	12-6921			
44,880	W. 6059	9-0	22-4474	10-2582			
44,869	W. 6060	8-8	22-5430	8-9060			
44,909	A. 6913	9-1	23-9725	13-3406			
R.A. 16 <sup>h</sup> 56 <sup>m</sup>							
45,209	A. 6913	9-1	1-1484	13-3453			
45,356	A. 6919	9-0	2-6826	25-9064			
45,166	W. 6064	9-0	2-8125	9-4514			
R.A. 16 <sup>h</sup> 56 <sup>m</sup> (continued)							
45,135	W. 6066	9-2	3-1357	4-7762			
45,228	A. 6921	8-7	3-6518	15-5589			
45,196	W. 6069	9-2	3-9606	11-7765			
45,290	A. 6928	8-6	6-0696	20-4370			
45,217	A. 6931	6-2	7-0579	14-1207			
45,276	A. 6934	9-0	8-3117	19-4448			
45,213	A. 6936	8-3	8-4779	13-7685			
45,357	A. 6937	8-3	8-5998	25-2278			
45,115	W. 6083	8-7	11-2803	3-3666			
45,317	A. 6943	8-4	11-7426	22-4617			
45,306	A. 6946	6-0	13-0090	21-8658			
45,359	A. 6949	9-0	13-5582	25-7569			
45,321	A. 6950	8-6	18-0466	22-4292			
45,120	W. 6095	8-7	20-0664	2-7570			
45,282	A. 6965	9-1	20-1232	19-1968			
45,216	A. 6966	8-3	20-4852	12-9969			
45,121	W. 6097	9-2	20-5785	3-3422			
45,145	W. 6098	8-2	20-6661	5-1945			
45,254	A. 6969	8-5	21-1467	17-0680			
45,185	W. 6104	8-6	21-5221	10-8275			
45,205	A. 6975	8-3	24-3575	12-7777			
R.A. 17 <sup>h</sup> 4 <sup>m</sup>							
45,605	A. 6975	8-3	1-5274	12-7783			
45,568	W. 6112	9-2	2-8534	10-7296			
45,857	A. 6982	8-7	5-1444	24-3561			
45,706	A. 6984	8-3	5-3218	17-8521			
45,482	W. 6117	9-4	6-6844	4-3718			
45,909	A. 6987	8-1	6-9586	25-8697			
45,708	A. 6988	8-4	7-0023	18-1238			
45,457	W. 6120	9-0	7-5325	3-8692			
45,590	A. 6990	9-3	7-8339	11-8763			
45,685	A. 6990	9-1	8-1750	16-6720			
45,595	W. 6124	6-5	8-5358	6-7230			
45,664	A. 6992	8-6	8-6663	15-9612			
45,615	A. 6993	8-1	9-0668	13-4664			
45,617	W. 6127	8-6	9-0910	0-0036			
45,499	W. 6129	9-0	10-9166	6-2761			
45,654	A. 6997	8-4	10-9804	14-5209			
45,863	A. 6998	9-0	11-0344	24-4773			
45,747	A. 7000	9-0	12-4359	19-5933			
45,596	W. 6136	8-9	13-5348	11-6511			
45,822	A. 7006	8-9	14-2852	22-5917			
45,773	A. 7010	9-0	15-3649	20-5533			
45,880	A. 7011	9-0	15-9654	24-8204			
45,619	A. 7014	9-3	16-6343	13-4031			
45,530	W. 6143	9-0	16-8952	8-0130			
45,825	A. 7017	9-0	16-9775	21-9891			
45,715	A. 7021	9-0	17-3633	18-6090			
45,666	A. 7023	8-5	17-8805	15-6338			
45,829	A. 7026	9-0	19-9158	22-4244			
45,448	W. 6151	8-4	20-0558	2-1957			
45,721	A. 7028	8-2	20-3888	18-1087			
45,625	A. 7029	8-8	20-5796	13-1963			
45,515	W. 6153	8-6	20-6254	6-7962			
45,581	W. 6154	9-0	20-9720	11-4033			
45,722	A. 7031	8-8	21-0497	18-2228			
45,516	W. 6157	9-0	21-2517	6-6709			
45,894	A. 7033	8-8	21-9469	25-6871			
45,781	A. 7036	8-8	23-0482	20-4960			
45,728	A. 7038	8-4	23-7361	18-0337			
45,850	A. 7040	8-1	23-8379	23-3290			
45,647	A. 7042	8-2	24-6249	14-2343			
R.A. 17 <sup>h</sup> 12 <sup>m</sup>							
46,231	A. 7038	8-4	0-9628	18-0409			
46,317	A. 7040	8-1	1-1217	23-3348			
46,163	A. 7042	8-2	1-8105	14-2321			
45,965	W. 6168	9-0	2-9464	1-9026			
46,012	W. 6169	8-7	3-1373	5-2039			
46,235	A. 7045	8-9	3-3254	18-3571			
45,984	W. 6176	8-6	6-7678	2-3743			
46,169	A. 7054	8-5	6-9653	13-8119			
46,339	A. 7057	9-1	8-2786	24-1045			
46,238	A. 7061	9-0	9-2666	17-8228			
46,143	A. 7062	8-6	9-8687	13-3011			
46,104	W. 6185	8-2	9-8889	10-6313			
45,969	W. 6186	9-2	9-8808	1-5011			
46,106	W. 6189	9-0	10-6587	11-4223			
46,051	W. 6190	8-9	10-7583	7-5547			
46,357	A. 7065	8-8	11-7007	25-0726			
46,080	W. 6192	9-4	12-2200	10-1324			
46,082	W. 6193	9-2	12-5723	9-6390			
46,087	W. 6206	9-2	12-7109	9-9525			
46,322	A. 7079	7-5	17-6226	23-2000			
46,150	A. 7080	8-5	17-9888	13-0226			
46,066	W. 6210	9-4	18-5770	9-4236			
46,347	A. 7084	9-0	18-7473	24-8568			
46,067	W. 6211	6-5	18-9066	8-8323			
46,325	A. 7087	8-5	19-0764	23-8858			
46,300	A. 7089	8-7	19-8666	12-5666			
46,219	A. 7098	8-9	22-6864	12-2457			
46,130	A. 7099	9-2	22-7866	12-3969			
46,273	A. 7103	8-9	23-6706	19-7263			
46,073	W. 6221	9-0	24-7711	9-1323			
45,990	W. 6222	9-0	25-1245	2-4809			
R.A. 17 <sup>h</sup> 20 <sup>m</sup>							
46,896	A. 7103	8-9	0-9155	19-7341			
46,620	W. 6221	9-0	1-9017	9-1283			
46,460	W. 6222	9-0	2-1834	2-4739			
46,898	A. 7110	8-8	3-0707	19-5676			
46,481	W. 6226	8-6	3-1714	3-9289			
46,965	A. 7112	8-8	3-4182	25-0861			
46,482	W. 6227	9-4	3-5347	3-9860			
46,625	W. 6228	8-4	3-7613	8-2920			
46,772	A. 7117	9-0	4-4502	14-1114			
46,740	A. 7120	8-9	5-3641	13-2608			
46,710	A. 7122	8-4	6-1188	11-5138			
46,514	W. 6234	9-0	7-0215	4-5621			
46,776	A. 7126	8-4	8-6437	13-4835			
46,936	A. 7127	8-8	9-0439	22-0531			
46,851	A. 7129	6-7	9-4729	17-2377			
46,937	A. 7131	8-8	10-1592	22-1988			
46,902	A. 7135	9-0	11-1987	20-1874			

—18°.

STANDARD CO-ORDINATES.

17<sup>h</sup> 28<sup>m</sup>—18<sup>h</sup> 8<sup>m</sup>

Reference No.				Mag.	Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.			ξ.		η.	
R.A. 17 <sup>h</sup> 28 <sup>m</sup>								
47.293	W. 6265	9.0			1.1534	9.7747		
47.294	W. 6266	9.0			1.1608	9.7424		
47.298	W. 6267	9.2			1.3425	7.1739		
47.297	W. 6269	8.6			1.9825	9.8160		
47.173	W. 6273	9.0			3.4013	5.7592		
47.727	A. 7168	8.2			3.9046	25.4494		
47.332	W. 6277	9.1			3.9786	10.6367		
47.135	W. 6281	8.5			4.8108	4.5601		
47.944	W. 6283	8.6			5.5775	1.7891		
47.396	A. 7175	8.8			6.2721	13.0440		
47.103	W. 6286	9.3			7.5056	3.9937		
47.181	W. 6291	7.9			10.6093	6.0880		
47.403	A. 7185	8.8			11.5228	12.6543		
47.111	W. 6294	9.0			11.8151	3.7751		
47.511	A. 7188	7.8			11.8548	16.2193		
47.763	A. 7189	9.0			12.1890	25.8468		
47.316	W. 6299	8.8			13.4343	10.1907		
47.052	W. 6300	9.1			13.8452	1.8243		
47.116	W. 6301	9.2			14.1748	4.0138		
47.644	A. 7195	9.1			14.2011	21.4911		
47.379	A. 7198	7.0			15.0221	14.8280		
47.481	A. 7201	8.9			16.0492	15.2215		
47.220	W. 6305	9.5			16.0982	6.4060		
47.514	A. 7202	9.1			16.3628	16.1198		
47.485	A. 7205	8.5			17.2303	15.1462		
47.628	A. 7212	8.9			18.0480	19.9206		
47.120	W. 6313	9.2			19.4962	3.9066		
47.353	W. 6316	8.0			19.8319	10.5700		
47.381	A. 7219	9.0			21.6828	11.6680		
47.406	A. 7220	8.6			21.8630	14.4667		
47.719	A. 7221	7.3			21.9582	24.1497		
47.326	W. 6333	8.9			23.9092	10.2175		

Reference No.				Mag.	Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.			ξ.		η.	
R.A. 17 <sup>h</sup> 36 <sup>m</sup> (continued)								
47.823	W. 6384	8.8			21.9512	3.2175		
47.837	W. 6388	9.2			22.9158	3.3456		
48.003	A. 7280	9.1			24.0468	18.9548		
47.894	W. 6390	9.2			24.6709	8.2915		
R.A. 17 <sup>h</sup> 44 <sup>m</sup>								
48.515	A. 7280	9.1			1.2834	18.9585		
48.270	W. 6390	9.2			1.7924	8.2895		
48.353	W. 6397	8.8			4.2215	11.2183		
48.416	A. 7293	7.3			6.1611	13.8414		
48.599	A. 7296	8.9			6.9222	23.7287		
48.455	A. 7299	9.0			8.0260	16.0650		
48.171	W. 6404	9.6			8.8637	4.1380		
48.600	A. 7303	9.3			9.5077	23.3082		
48.197	W. 6409	9.0			13.1070	4.3889		
48.604	A. 7309	8.3			15.0388	23.6019		
48.180	W. 6416	9.0			16.2411	3.7304		
48.526	A. 7313	9.1			16.9723	18.9807		
48.567	A. 7314	8.5			18.0034	21.3774		
48.425	W. 7326	7.7			20.2523	13.7912		
48.115	W. 6429	8.0			20.2554	0.3219		
48.607	W. 7332	8.3			22.8849	23.2618		
48.266	W. 6433	8.8			22.9066	6.5456		
48.188	W. 6436	9.2			24.2236	4.1752		
48.246	W. 6437	8.9			24.9123	5.7191		
R.A. 17 <sup>h</sup> 52 <sup>m</sup>								
48.784	W. 6436	9.2			1.3003	4.1772		
48.802	W. 6437	8.9			2.0060	5.7142		
49.103	A. 7335	8.9			2.7660	18.3368		
49.372	A. 7338	9.0			3.4427	24.6325		
49.055	A. 7341	8.3			5.1471	16.2915		
49.027	A. 7345	8.9			6.6953	15.2388		
49.379	A. 7346	9.0			7.2964	24.9484		
49.231	A. 7347	6.2			7.4146	22.4220		
48.808	W. 6446	9.1			8.2280	6.0402		
49.382	A. 7349	9.1			8.2283	25.4937		
49.139	A. 7355	9.0			9.9000	18.7898		
49.343	A. 7357	9.1			10.3654	24.2787		
48.766	W. 6455	9.0			10.9094	4.1481		
49.008	W. 6456	9.2			11.0816	13.9056		
49.030	A. 7359	8.9			11.4334	15.2676		
49.009	A. 7360	8.6			11.5866	13.5555		
49.208	A. 7362	8.8			11.8218	21.0324		
49.064	A. 7371	9.3			13.7878	15.9524		
49.032	A. 7373	8.7			14.1744	14.9400		
49.247	A. 7376	8.6			15.4221	21.9300		
48.916	W. 6469	9.2			16.2484	10.2085		
49.038	A. 7383	8.3			17.3767	15.3746		
49.149	A. 7386	8.8			18.2711	19.5500		
49.312	A. 7387	8.9			18.5276	22.8073		
48.921	W. 6476	9.0			19.5255	10.3371		
49.184	A. 7393	8.1			20.4190	19.8917		
49.043	A. 7395	8.8			21.1093	15.3133		
49.020	A. 7405	8.1			22.1328	14.1794		
49.019	W. 6485	8.7			22.1347	13.8474		
48.751	W. 6487	6.9			23.2474	2.8575		

Reference No.				Mag.	Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.			ξ.		η.	
R.A. 18 <sup>h</sup> 0 <sup>m</sup>								
49.915	A. 7413	8.7			2.9752	11.1112		
49.601	W. 6496	9.0			3.0890	2.5463		
49.771	W. 6497	8.2			4.0668	7.2830		
50.041	A. 7418	9.0			4.8691	13.8794		
49.736	W. 6499	8.1			5.2095	5.9848		
49.960	A. 7423	8.8			5.3789	12.7484		
49.812	W. 6502	8.0			5.9464	8.3447		
50.008	A. 7427	8.8			6.8405	13.5757		
50.392	A. 7428	9.0			6.9904	23.6040		
50.121	A. 7429	8.8			7.0817	16.6684		
50.240	A. 7432	8.6			7.5010	19.4446		
..	W. 6504	9.1			7.6639	0.2603		
49.700	W. 6506	8.2			8.8077	5.2880		
49.515	W. 6508	8.6			9.6206	1.4314		
50.498	A. 7444	8.7			9.8905	25.5491		
49.661	W. 6515	9.2			11.8776	4.5609		
50.501	A. 7463	8.7			14.7709	25.9171		
49.613	W. 6522	9.1			15.1428	3.5087		
50.449	A. 7467	7.3			15.3335	24.9223		
..	W. 6525	8.8			15.6279	0.1784		
50.359	A. 7469	9.0			15.6492	22.8202		
50.054	W. 6526	9.4			15.6954	14.0110		
50.022	A. 7479	9.1			18.2141	13.4592		
49.620	W. 6536	7.5			18.7525	3.0227		
50.395	A. 7481	8.6			19.5716	22.5906		
50.456	A. 7482	9.0			19.9843	24.3421		
49.902	W. 6541	9.0			20.6742	9.9001		
49.982	A. 7492	8.7			21.5092	12.8531		
49.793	W. 6546	9.2			21.6809	7.2842		
49.535	W. 6547	9.1			21.9500	1.1189		
49.798	W. 6554	9.4			23.9950	7.6166		
49.675	W. 6562	8.9			25.3182	3.7122		
49.904	W. 6563	8.8			25.3644	10.0427		

Reference No.				Mag.	Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.			ξ.		η.	
R.A. 18 <sup>h</sup> 8 <sup>m</sup>								
50.930	W. 6554	9.4			1.1094	7.6216		
50.745	W. 6562	8.9			2.3902	3.7033		
51.033	W. 6563	8.8			2.5047	10.0326		
51.747	A. 7507	9.5			2.8711	21.1539		
51.375	A. 7508	8.7			2.8847	15.5771		
51.081	W. 6566	8.7			3.5597	10.3337		
51.840	A. 7511	8.6			3.6356	21.6430		
51.188	A. 7515	8.9			4.0264	12.2642		
50.684	W. 6571	9.2			4.1804	2.9317		
50.685	W. 6573	8.8			4.2317	2.9620		
52.023	A. 7517	9.1			4.5807	23.6837		
51.672	A. 7519	8.1			4.9677	19.8152		
50.889	W. 6574	9.2			5.1258	7.0882		
50.846	W. 6576	8.8			5.4386	5.8750		
52.221	A. 7524	8.9			6.9820	25.7986		
52.222	A. 7528	8.8			7.3379	25.9567		
51.757	A. 7529	9.1			7.4515	21.4483		
51.588	A. 7531	8.2			8.2403	18.4423		
50.849	W. 6588	9.0			8.4603	5.7931		
52.035	A. 7533	9.0			9.0625	23.6197		
51.516	A. 7535	8.9			9.3016	18.0565		
50.896	W. 6596	8.4			9.9035	6.2640		
51.453	A. 7541	9.0			10.7109	17.0423		
51.950	A. 7548	9.2			12.2488	22.8261		
51.528	A. 7551	8.2			12.3899	17.9732		



Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 18 <sup>h</sup> 8 <sup>m</sup> (continued)					R.A. 18 <sup>h</sup> 16 <sup>m</sup> (continued)					R.A. 18 <sup>h</sup> 24 <sup>m</sup> (continued)				
50,762	W. 6604	8.9	12.7970	3.1979	52,472	W. 6700	8.6	11.0860	6.1119	...	W. 6813	8.8	22.7512	0.0585
50,707	W. 6605	9.1	12.8280	3.0096	53,113	A. 7642	6.0	11.5822	23.8555	...	W. 6816	8.4	23.4781	0.3689
52,129	A. 7553	8.8	12.9078	25.1939	52,974	A. 7645	8.7	12.1511	18.6766	53,570	W. 6821	8.9	25.0470	8.3925
51,861	A. 7555	9.3	13.3602	22.4956	53,001	A. 7646	8.7	12.4667	19.7716	53,262	W. 6822	9.0	25.3037	0.9397
52,059	A. 7558	9.5	14.5149	24.4820	52,439	W. 6706	9.4	12.5818	4.8986	R.A. 18 <sup>h</sup> 32 <sup>m</sup>				
51,338	A. 7559	8.5	14.6285	15.1433	52,676	A. 7647	8.8	12.6504	12.3173	54,860	W. 6821	8.9	2.1695	8.3865
51,208	A. 7561	9.1	14.6336	12.7676	52,314	W. 6708	9.0	12.9880	0.8602	54,606	W. 6822	9.0	2.3458	0.9308
51,462	A. 7562	8.9	14.7090	16.6197	52,507	W. 6710	9.2	13.9472	6.6906	54,939	W. 6825	9.0	2.6488	10.2731
50,860	W. 6609	9.0	15.3295	5.0959	52,515	W. 6713	9.0	14.5816	0.1710	54,607	W. 6826	8.7	3.2368	1.2046
51,970	A. 7567	8.2	15.4510	22.7445	52,444	W. 6716	8.9	15.0442	5.2061	55,174	A. 7773	8.8	3.4061	17.6149
51,695	A. 7572	8.1	16.2382	19.9451	52,510	W. 6717	9.1	15.4198	6.4991	54,648	W. 6832	8.1	5.3442	1.7755
52,165	A. 7575	8.0	16.9458	25.2762	53,053	A. 7659	8.9	15.5856	22.2049	55,209	A. 7785	8.2	6.5918	20.5687
51,001	W. 6614	9.2	16.9715	9.0080	52,511	W. 6719	9.0	15.9086	6.9433	55,376	A. 7790	9.1	10.8902	13.1127
50,716	W. 6616	8.8	17.1608	26.211	52,317	W. 6720	8.6	15.9645	0.6774	54,881	W. 6852	9.1	12.2401	7.6090
51,539	A. 7578	8.7	17.5465	17.6578	52,614	W. 6722	8.6	16.3820	9.7123	54,740	W. 6853	9.3	12.0318	3.0068
51,794	A. 7579	6.5	17.6495	21.3104	52,343	W. 6723	9.0	16.7852	1.7980	54,741	W. 6854	9.2	12.8844	3.9361
52,077	A. 7582	9.2	18.3562	24.3156	52,449	W. 6727	9.1	17.3761	5.0586	54,782	W. 6856	7.6	13.1480	4.7899
50,628	W. 6622	8.6	18.5809	1.0312	52,380	W. 6728	9.4	17.6477	3.0988	54,661	W. 6858	9.2	13.4929	1.5106
51,403	A. 7583	9.5	18.6251	15.6903	52,416	W. 6729	9.2	17.9553	3.9574	55,221	A. 7812	8.6	14.3687	18.6258
51,622	A. 7584	9.9	18.8318	18.5881	52,800	A. 7676	8.9	20.1135	14.7488	55,387	A. 7814	9.3	15.3707	23.4379
51,404	A. 7585	8.0	18.9070	16.2757	52,719	A. 7679	9.2	20.8270	12.6425	55,353	A. 7823	8.9	17.5928	22.1294
51,013	W. 6626	8.2	19.1051	8.6812	52,881	A. 7680	9.0	21.1108	17.0166	55,000	A. 7829	9.2	19.4101	11.3313
51,990	A. 7587	8.6	19.5860	22.9852	53,061	A. 7681	9.0	21.1021	22.4859	54,721	W. 6877	8.8	23.1343	3.9324
52,190	A. 7588	8.7	20.2031	25.0806	52,453	W. 6736	9.0	21.5757	4.6436	55,364	A. 7838	9.1	23.5990	22.8275
51,996	A. 7590	8.6	20.8030	23.0894	53,008	A. 7683	7.9	21.9919	20.1219	55,455	A. 7840	9.3	23.7379	25.2015
51,721	A. 7591	9.0	21.3932	20.0258	52,882	A. 7684	8.7	22.2583	16.9947	55,100	A. 7839	8.8	23.7409	14.0034
51,229	A. 7592	8.6	21.6947	12.7359	52,548	W. 6741	9.2	22.8216	7.8067	R.A. 18 <sup>h</sup> 40 <sup>m</sup>				
52,199	A. 7593	7.8	21.7614	25.0461	52,387	W. 6746	9.2	24.3838	2.6125	55,919	A. 7838	9.1	0.8774	22.8364
50,880	W. 6640	7.0	22.0585	5.9196	53,011	A. 7690	8.8	25.3081	20.1822	55,706	A. 7839	8.8	0.9241	14.0106
50,637	W. 6641	9.0	22.9794	0.5823	R.A. 18 <sup>h</sup> 24 <sup>m</sup>					55,977	A. 7840	9.3	1.0419	25.2083
51,647	A. 7598	7.5	23.2696	19.0111	53,311	W. 6746	9.2	1.4441	2.6135	55,522	W. 6883	7.8	2.5984	2.2961
51,173	A. 7604	8.9	24.6232	11.4214	54,109	A. 7690	8.8	2.5578	20.1720	55,674	A. 7851	9.2	3.2743	12.3966
51,913	A. 7605	8.5	24.6396	21.9025	53,884	A. 7692	8.5	3.2861	14.7461	55,656	A. 7854	8.9	4.6624	11.1420
51,915	A. 7607	9.0	24.8591	22.6264	53,585	W. 6755	8.0	3.9588	9.5070	55,599	W. 6902	9.2	6.3775	7.1991
R.A. 18 <sup>h</sup> 16 <sup>m</sup>					54,168	A. 7696	8.6	4.7338	21.0909	55,625	W. 6903	8.8	6.9818	8.7313
52,657	A. 7604	8.9	1.7785	11.4192	53,374	W. 6756	8.4	4.7517	4.0867	55,528	W. 6906	8.1	7.4547	1.4851
53,041	A. 7605	8.5	1.9080	21.8996	54,115	A. 7697	9.5	4.7686	20.6502	55,818	A. 7864	9.2	7.5194	18.3098
53,080	A. 7607	9.0	2.1352	22.6209	53,973	A. 7698	9.1	4.7824	17.7661	55,939	A. 7866	8.8	7.9206	23.3571
52,946	A. 7610	8.0	3.0741	19.1831	54,071	A. 7699	8.7	4.9021	19.6412	55,733	A. 7875	9.0	10.6858	15.3329
52,529	W. 6655	7.5	3.2064	7.8841	53,459	A. 7700	8.3	5.2043	5.6127	55,629	W. 6913	7.8	12.4344	8.7701
52,350	W. 6657	8.9	3.5724	2.7853	54,402	A. 7702	8.7	5.6728	18.2199	55,821	A. 7880	8.3	13.1005	18.6091
53,017	A. 7613	7.7	4.0418	20.9154	53,418	W. 6759	8.5	5.4754	5.0678	...	W. 6919	9.0	15.7831	0.0062
53,018	A. 7614	8.6	4.0866	20.8709	54,019	A. 7707	7.5	7.5917	11.3386	55,944	A. 7894	8.6	17.7960	23.3432
52,855	A. 7616	9.0	4.2477	16.0858	53,212	W. 6760	9.0	5.6730	0.9245	55,966	A. 7897	9.0	18.4678	21.5435
52,813	A. 7617	8.3	4.2489	15.5470	53,699	A. 7707	7.5	7.5917	11.3386	55,795	A. 7900	7.8	19.0620	17.0592
52,902	A. 7620	8.0	4.1589	19.5851	53,278	W. 6773	9.0	9.4112	1.4822	55,848	A. 7902	8.9	19.3402	19.4000
52,817	A. 7623	9.0	6.1509	16.1255	54,080	A. 7719	8.9	9.9423	19.8388	55,512	W. 6931	9.2	19.3948	0.9156
52,594	W. 6674	9.0	6.3859	10.1744	54,419	A. 7721	8.6	10.4839	25.3030	55,929	A. 7906	8.6	21.1139	22.7417
52,958	A. 7627	9.1	7.0187	19.0728	53,470	W. 6781	9.2	12.1698	6.0073	55,910	A. 7907	7.2	21.2298	21.5609
52,631	W. 6678	7.2	7.2897	10.5089	54,241	A. 7728	6.9	13.9046	22.5055	55,911	A. 7909	8.1	21.3993	21.9292
52,562	W. 6679	8.8	7.4805	8.8446	53,437	W. 6791	8.9	16.0226	4.9254	55,550	W. 6935	8.5	21.4356	2.7688
52,358	W. 6680	9.0	7.5191	2.3725	54,372	A. 7733	9.8	16.2091	24.3740	55,516	W. 6939	9.1	22.5438	0.9509
52,361	W. 6681	9.2	7.7721	2.2176	54,374	A. 7734	7.5	17.1167	24.6676	55,948	A. 7910	8.6	22.9780	23.6133
52,365	W. 6682	9.2	7.9675	2.2111	53,712	A. 7735	9.0	17.2040	11.1908	55,808	A. 7911	8.7	23.1253	17.7611
52,366	W. 6683	9.4	8.3419	2.0905	53,992	A. 7738	8.3	17.3738	16.9843	55,856	A. 7912	8.7	23.1761	19.3301
53,025	A. 7634	9.0	8.5224	20.6113	54,500	A. 7739	6.5	17.4936	18.6591					
52,368	W. 6688	9.1	9.1274	2.8794	53,235	W. 6800	9.6	18.5815	1.3538					
52,369	W. 6690	9.2	9.2690	2.7369	54,380	A. 7745	9.0	18.9308	24.8607					
52,630	W. 6691	8.9	9.6093	10.5024	54,052	A. 7754	9.2	20.3915	18.1401					
52,596	W. 6693	9.1	9.7161	9.3994	54,455	A. 7755	7.6	20.3774	25.5484					
52,405	W. 6697	8.4	10.6918	3.3449	54,954	A. 7759	7.7	22.4261	18.3186					

-18°.

## STANDARD CO-ORDINATES.

18<sup>h</sup> 40<sup>m</sup>—19<sup>h</sup> 20<sup>m</sup>

Reference No.					Reference No.					Reference No.				
Hyd.		Mag.	Standard co-ordinates, 1900-0.		Hyd.		Mag.	Standard co-ordinates, 1900-0.		Hyd.		Mag.	Standard co-ordinates, 1900-0.	
Wash. or Alg.			ξ.	η.	Wash. or Alg.			ξ.	η.	Wash. or Alg.			ξ.	η.
<b>R.A. 18<sup>h</sup> 40<sup>m</sup> (continued)</b>					<b>R.A. 18<sup>h</sup> 56<sup>m</sup> (continued)</b>					<b>R.A. 19<sup>h</sup> 12<sup>m</sup> (continued)</b>				
55.995	A. 7915	8.3	23.5342	25.2791	56.958	A. 8045	9.1	13.8620	19.2317	57.925	A. 8166	8.2	3.1847	13.8829
55.518	W. 6043	8.2	23.9201	1.2362	56.992	A. 8046	9.0	13.9028	21.2683	57.977	A. 8169	8.8	3.6837	15.7894
55.749	A. 7918	8.9	24.3953	15.4741	56.653	W. 7037	8.2	13.9172	0.9717	57.718	W. 7155	8.9	4.3242	3.2767
55.520	W. 6044	9.2	24.5442	1.4258	56.906	A. 8047	9.1	14.8068	16.0508	58.082	A. 8175	9.1	4.4627	21.1962
55.859	A. 7921	8.6	24.9115	19.6285	56.603	W. 7044	8.8	15.8058	2.7633	57.893	A. 8176	9.0	4.5526	11.7677
55.703	A. 7922	8.7	25.1079	13.6555	56.654	W. 7045	9.1	16.1313	0.7954	57.795	W. 7159	7.8	4.5731	7.2380
<b>R.A. 18<sup>h</sup> 48<sup>m</sup></b>					56.812	A. 8055	9.1	16.9603	10.4107	57.719	W. 7160	9.0	4.8780	4.1446
56.053	W. 6043	8.2	0.9746	1.2421	56.771	W. 7052	9.1	17.7362	6.4693	57.671	W. 7166	9.0	6.0545	1.3960
56.054	W. 6044	9.2	1.5917	1.4248	56.887	A. 8058	9.0	17.5283	15.5662	57.816	W. 7173	8.9	8.0666	7.3849
56.286	A. 7918	8.9	1.5943	15.4741	57.045	A. 8060	8.3	17.8049	24.4211	58.124	A. 8184	8.5	8.2386	22.9483
56.392	A. 7921	8.6	2.1553	19.6226	56.845	A. 8066	8.8	19.5772	1.4716	57.696	W. 7175	Var.	8.6077	2.7592
56.253	A. 7922	8.7	2.2873	13.6479	56.840	A. 8072	8.8	21.3593	23.2908	57.877	W. 8190	8.9	9.8019	10.9867
56.348	A. 7923	8.7	2.7897	26.0438	56.773	A. 8073	8.8	21.4505	12.4215	57.724	W. 7184	8.3	10.9449	3.7581
56.115	W. 6048	9.3	3.2171	5.2302	56.658	W. 7063	8.8	21.5413	6.7843	58.146	A. 8201	8.8	11.6638	24.3114
56.220	A. 7933	8.7	4.9722	11.8748	56.943	A. 8077	8.8	21.7841	1.1214	58.105	A. 8202	8.5	11.8788	22.1055
56.272	A. 7936	9.2	5.4185	14.5054	56.660	W. 7067	9.4	22.6725	18.3861	57.910	A. 8205	8.6	12.1964	13.0001
56.199	A. 7937	8.6	5.5807	10.8786	56.661	W. 7068	8.6	22.8998	0.3192	57.934	A. 8207	8.3	12.4511	14.1838
56.141	W. 6056	9.2	5.7707	7.2211	56.907	A. 8078	9.0	23.6446	16.1291	57.958	A. 8209	8.7	12.8499	15.4033
56.095	W. 6058	7.4	5.9300	4.2645	56.729	W. 7069	9.4	23.7252	4.8632	58.003	A. 8214	8.6	13.9214	17.0520
56.055	W. 6059	9.0	6.0248	0.8447	56.924	A. 8081	8.4	24.9762	16.8379	58.066	A. 8217	8.7	14.4564	20.7088
56.127	W. 6062	8.4	6.7354	6.1411	<b>R.A. 19<sup>h</sup> 4<sup>m</sup></b>					57.701	W. 7199	9.2	14.5249	3.1862
56.104	A. 7944	9.0	7.6308	19.7864	57.183	W. 7069	9.4	0.8098	4.8711	57.730	W. 7201	9.0	14.7253	4.1008
56.058	W. 6065	8.9	7.9236	0.8099	57.410	A. 8078	9.0	0.8507	16.1374	58.129	A. 8218	8.0	14.8567	23.5298
56.352	A. 7958	7.0	10.4082	17.5557	57.440	A. 8081	8.4	2.1899	16.8315	57.781	W. 7205	8.4	15.4202	5.7499
56.400	A. 7959	6.9	10.8669	22.0886	57.160	W. 7077	9.0	4.1866	4.1043	57.704	W. 7206	8.9	15.5228	24.0093
56.509	A. 7963	8.8	11.5254	23.8933	57.208	W. 7078	9.0	4.2458	5.8014	57.682	W. 7210	9.0	15.7106	3.2600
56.378	A. 7965	9.1	11.9588	19.1678	57.376	A. 8084	9.0	4.5719	13.9906	57.678	W. 7215	9.2	16.3423	14.3153
56.059	W. 6074	9.2	12.4316	1.6676	57.564	A. 8087	7.0	5.2939	23.7146	57.707	W. 7217	9.0	16.6162	1.9176
56.106	W. 6081	9.0	15.9191	4.4709	57.357	A. 8090	8.6	5.6661	13.1360	58.179	A. 8238	8.7	17.6482	2.6437
56.109	W. 6084	9.0	16.0204	9.1391	57.358	A. 8092	8.8	5.8776	13.2313	57.734	W. 7224	7.9	18.4880	3.3077
56.212	W. 6088	9.1	17.3133	10.0898	57.211	W. 7086	8.4	5.9417	4.6172	58.091	A. 8245	8.1	20.9028	3.7657
56.231	A. 7999	9.0	18.2770	11.4749	57.192	W. 7088	9.4	5.9417	4.6172	58.138	A. 8246	8.6	21.1368	4.7071
56.446	A. 7992	8.8	18.6354	20.9378	57.565	A. 8094	9.2	6.6871	23.0035	57.729	W. 7229	9.2	22.4282	21.4701
56.205	A. 7993	8.6	18.8626	13.4668	57.330	A. 8099	8.9	8.0224	10.9242	57.919	A. 8249	4.8	23.5852	5.9763
56.192	W. 6096	9.0	18.9322	9.5071	57.214	W. 7092	9.1	8.4127	5.5940	57.789	W. 7231	8.0	24.0485	13.4557
56.119	W. 6099	9.1	19.1858	5.1640	57.571	A. 8109	7.4	10.4505	23.0891	58.053	A. 8251	6.8	24.2384	6.2140
56.490	A. 7994	7.2	19.7566	23.0597	57.284	W. 7097	8.2	10.5410	9.2790	<b>R.A. 19<sup>h</sup> 20<sup>m</sup></b>				
56.514	A. 7995	8.9	20.0210	23.4154	57.512	A. 8112	8.7	11.0404	20.7715	58.238	W. 7229	9.2	0.6814	5.9547
56.178	W. 7001	9.1	20.3642	8.3920	57.136	W. 7105	8.4	11.9415	1.5332	58.313	A. 8249	4.8	1.2258	13.4596
56.161	W. 7003	7.8	21.3966	7.8985	57.572	A. 8116	9.1	12.2359	23.6142	58.249	W. 7231	8.0	1.3367	6.2160
56.122	W. 7004	8.8	21.6904	5.5322	57.573	A. 8121	9.2	12.7250	23.0960	58.370	A. 8251	6.8	1.6581	18.9545
56.421	A. 8002	9.2	23.5116	19.6668	57.286	W. 7110	8.6	13.7737	8.9987	58.381	A. 8256	9.0	2.8849	20.0786
<b>R.A. 18<sup>h</sup> 56<sup>m</sup></b>					57.342	A. 8120	9.1	15.4771	11.6952	58.405	A. 8262	9.4	4.0684	22.0549
56.968	A. 8002	9.2	0.7558	19.6765	57.477	A. 8136	9.2	17.1221	18.2775	58.325	W. 7245	8.0	4.7509	15.1642
56.862	A. 8012	9.1	2.9408	13.7957	57.205	W. 7119	8.9	17.2038	8.1512	58.275	A. 8265	8.9	5.0135	9.5595
56.787	W. 7011	9.4	3.7693	8.3797	57.452	A. 8138	9.2	18.0110	17.5112	58.327	A. 8269	8.5	6.2090	15.3023
56.984	A. 8014	8.3	3.3755	21.0033	57.105	W. 7134	9.0	21.4903	2.9411	58.328	A. 8271	8.5	6.2668	15.2579
56.864	A. 8018	8.7	4.4575	13.9123	57.166	W. 7135	8.8	21.9594	2.9808	58.315	A. 8272	8.8	6.3273	15.3167
56.702	W. 7016	9.2	5.4732	3.6628	57.180	W. 7140	9.0	22.9529	4.3002	58.288	A. 8273	8.8	6.3660	13.5674
56.988	A. 8023	6.8	6.1033	21.4337	57.619	A. 8155	8.9	23.0820	25.3044	58.243	W. 7255	8.0	6.9287	10.4849
56.851	A. 8025	8.4	6.2774	13.2024	57.620	A. 8163	9.2	24.5153	25.4085	58.397	A. 8277	9.0	7.3930	5.6572
56.073	A. 8028	8.3	7.2651	19.8693	57.118	W. 7147	9.0	24.5791	1.0742	58.308	A. 8279	8.8	7.4219	21.2577
56.866	A. 8032	8.9	8.3369	13.8584	<b>R.A. 19<sup>h</sup> 12<sup>m</sup></b>					58.407	A. 8280	9.1	8.8384	22.2955
56.791	W. 7027	8.4	9.0437	8.4723	57.651	W. 7147	9.0	1.6228	1.0732	58.419	A. 8287	7.7	10.1907	22.7436
56.687	W. 7028	8.5	9.2105	2.5987	58.161	A. 8163	9.2	1.8214	25.4067	58.343	A. 8288	9.1	10.5209	15.7135
56.721	W. 7029	8.0	9.9035	5.2634						58.278	W. 7264	9.2	10.7002	9.3865
56.762	W. 7035	8.4	13.1245	6.9068										
56.711	W. 7036	8.6	13.5392	3.6258										

Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.	
<b>R.A. 19<sup>h</sup> 20<sup>m</sup> (continued)</b>					<b>R.A. 19<sup>h</sup> 36<sup>m</sup></b>					<b>R.A. 19<sup>h</sup> 52<sup>m</sup> (continued)</b>				
58,388	A. 8290	9-0	10-8044	20-2277	58,824	A. 8412	9-1	3-4308	17-2228	59,369	A. 8545	8-7	10-2216	13-1055
58,299	A. 8292	8-8	10-8482	11-6101	58,723	W. 7373	8-8	4-2063	4-8601	59,422	A. 8546	9-0	10-2433	19-1450
58,408	A. 8293	7-0	10-9815	22-1004	58,763	W. 7376	9-2	5-5884	8-5893	59,436	A. 8548	8-7	10-7317	20-5288
58,291	A. 8294	8-8	11-7458	11-0671	58,706	W. 7377	8-1	5-7048	2-6609	59,287	W. 7499	9-2	12-2707	5-2137
58,211	W. 7269	8-4	11-7425	1-3693	58,707	W. 7378	8-1	5-7353	2-6392	59,425	A. 8553	8-7	13-8077	19-6604
58,204	W. 7270	9-0	11-8413	0-2214	58,724	W. 7383	9-4	7-7516	4-3895	59,403	A. 8554	8-7	14-2023	23-6445
58,375	A. 8300	9-3	12-8137	10-0859	58,725	W. 7386	9-3	7-8346	4-3046	59,453	A. 8556	8-4	15-2651	20-8106
58,376	A. 8301	9-1	12-9194	10-1402	58,770	W. 7388	9-1	7-9843	9-2939	59,417	A. 8558	9-0	16-0102	18-6477
58,234	W. 7278	9-0	14-7041	4-9809	58,813	A. 8426	8-3	8-0533	14-4537	59,398	A. 8561	8-5	16-6640	15-7585
58,208	W. 7281	8-8	15-9156	0-7902	58,850	A. 8427	8-8	8-7358	19-5419	59,357	A. 8565	9-3	18-2016	11-7551
58,344	A. 8311	9-1	16-4176	15-9571	58,709	W. 7392	8-8	8-8261	2-2904	59,442	A. 8570	8-5	21-3477	19-7732
58,390	A. 8317	7-6	18-2667	10-6220	58,852	A. 8440	9-2	13-5303	20-0563	59,403	A. 8571	8-9	21-5231	15-7694
58,428	A. 8318	8-5	18-5488	24-0414	58,817	A. 8441	9-2	13-9318	15-0482	59,332	W. 7515	9-4	22-5693	9-2043
58,391	A. 8323	7-5	19-4562	10-7471	58,868	A. 8443	8-9	14-8333	22-0983	59,274	W. 7522	8-2	23-9343	2-7361
58,304	A. 8326	9-0	20-6138	12-1409	58,831	A. 8447	8-9	16-0022	18-2133	59,353	A. 8575	8-3	24-7758	10-9467
58,322	A. 8327	8-9	20-9180	13-4825	58,869	A. 8448	9-2	16-2674	22-1642	59,389	A. 8577	9-3	25-1126	15-1597
58,346	A. 8330	9-0	22-3464	16-2747	58,767	W. 7421	8-1	20-8712	8-0824					
58,282	A. 8331	9-1	22-3842	10-1102	58,870	A. 8460	8-8	21-4607	22-1971					
58,337	A. 8333	9-0	22-8395	15-4291	58,768	W. 7423	9-1	21-8430	9-1078					
58,438	A. 8334	8-8	23-2084	25-7507	58,834	A. 8462	8-8	22-1940	17-6997					
58,348	A. 8338	9-1	24-1960	15-8744	58,773	A. 8463	9-1	22-9378	9-7702					
58,349	A. 8339	9-0	24-2451	10-4618	58,732	W. 7426	9-0	23-0749	4-8679					
58,286	A. 8342	8-8	25-2060	10-2444										
58,366	A. 8344	8-2	25-3354	18-4327										
<b>R.A. 19<sup>h</sup> 28<sup>m</sup></b>					<b>R.A. 19<sup>h</sup> 44<sup>m</sup></b>					<b>R.A. 20<sup>h</sup> 0<sup>m</sup></b>				
58,575	A. 8338	9-1	1-3993	15-8766	59,103	A. 8467	9-0	3-0808	16-2659	59,519	W. 7522	8-2	0-9960	2-7420
58,576	A. 8339	9-0	1-4548	16-4634	59,114	A. 8471	8-8	3-4603	17-7580	59,606	A. 8575	8-3	1-0260	10-9431
58,530	A. 8342	8-8	2-3486	10-2361	59,002	W. 7434	9-2	4-3016	6-1086	59,647	A. 8577	9-3	2-3082	15-1520
58,595	A. 8344	8-2	2-5662	18-4223	58,992	W. 7439	9-2	5-5630	4-8882	59,648	A. 8579	9-0	3-7824	15-2103
58,634	A. 8347	9-0	3-1254	22-3400	59,191	A. 8478	8-0	5-9149	24-8781	59,687	A. 8581	9-4	4-5030	18-9637
58,596	A. 8348	8-8	3-7580	18-2186	59,108	A. 8482	8-9	7-0680	4-7849	59,677	A. 8582	8-9	4-6209	18-4239
58,605	A. 8349	8-0	4-0984	19-3988	59,152	A. 8483	9-1	7-5970	20-8109	59,688	A. 8583	9-4	4-6452	19-0499
58,497	W. 7312	8-3	4-4690	5-9292	59,049	A. 8486	8-4	7-9920	9-7185	59,713	A. 8585	7-3	4-8573	22-8901
58,452	W. 7314	8-8	4-8164	0-5580	59,183	A. 8487	8-5	8-1229	23-6610	59,578	W. 7528	8-1	5-4657	8-5233
58,498	W. 7315	8-4	4-8711	6-3344	59,205	A. 8490	9-0	8-9778	25-6357	59,689	A. 8586	8-1	5-7575	19-2719
58,550	A. 8358	9-0	6-2637	11-6009	59,040	W. 7453	9-2	11-7128	9-9957	59,502	W. 7531	8-8	7-1626	1-3412
58,513	W. 7320	9-2	6-9053	7-4081	59,086	A. 8500	9-1	14-0502	14-3576	59,744	A. 8588	8-9	7-5649	25-8356
58,499	W. 7321	8-4	7-0660	6-2981	59,094	A. 8502	8-7	14-2086	15-4511	59,700	A. 8593	9-2	9-1031	9-9302
58,649	A. 8360	8-8	7-6633	23-4112	59,144	A. 8507	9-2	17-4381	19-8191	59,634	A. 8598	9-1	10-7806	13-8041
58,454	W. 7323	8-6	7-9333	1-2847	59,015	W. 7404	8-8	18-7434	7-2760	59,745	A. 8599	9-0	10-8814	25-6547
58,482	W. 7334	9-0	11-9428	4-2388	59,209	A. 8511	9-0	19-1087	25-4817	59,734	A. 8600	9-0	11-3923	24-8999
58,652	A. 8367	8-4	12-3066	22-9411	59,016	W. 7466	9-3	19-6009	7-5549	59,659	A. 8601	9-0	11-7542	16-3517
58,495	W. 7337	9-1	12-4922	1-4260	59,042	W. 7497	9-4	19-7169	8-8376	59,629	A. 8602	8-8	12-6495	12-8690
58,670	A. 8368	8-8	12-7826	25-0952	59,017	W. 7498	9-0	19-9866	6-9626	59,512	W. 7551	9-0	13-2940	1-7009
58,552	A. 8373	9-3	13-3212	11-6443	59,210	A. 8514	9-0	20-2327	25-1062	59,737	A. 8605	8-3	13-7585	24-8736
58,475	W. 7344	8-2	14-0735	3-0236	58,974	W. 7499	8-6	20-7777	2-7172	59,701	A. 8610	8-3	15-0744	20-1270
58,510	W. 7345	8-6	14-0995	7-4055	59,158	A. 8518	8-8	20-9279	20-2113	59,638	A. 8613	9-1	16-5200	14-3719
58,560	A. 8377	9-1	14-3098	14-1887	59,986	W. 7473	9-0	22-0128	4-4705	59,573	W. 7557	8-6	16-8316	6-7002
58,586	A. 8379	9-0	15-2158	17-6762	59,098	A. 8525	8-9	23-3436	15-0285	59,532	W. 7560	9-1	18-0215	3-9953
58,484	W. 7351	9-2	15-4326	4-0637	59,124	A. 8529	9-1	25-1273	17-4836	59,653	A. 8620	8-8	18-7508	15-3997
58,587	A. 8381	8-9	15-6368	16-8175						59,533	W. 7562	9-1	18-7778	4-4366
58,663	A. 8382	8-5	16-1607	24-8170						59,696	A. 8622	8-8	19-9027	19-4851
58,672	A. 8394	6-2	20-3908	25-8991						59,661	A. 8626	8-6	21-7064	16-8246
58,590	A. 8397	9-1	21-3587	16-8662						59,704	A. 8631	8-4	24-2107	20-6084
58,521	W. 7358	8-8	21-3832	7-6831						59,564	W. 7571	9-1	24-9460	5-8345
58,673	A. 8399	8-3	22-4965	25-0855										
58,602	A. 8403	6-8	22-2594	18-4582										
58,666	A. 8405	9-0	22-6543	24-5205										
58,503	W. 7363	8-7	23-1590	5-7373										
<b>R.A. 19<sup>h</sup> 52<sup>m</sup></b>					<b>R.A. 20<sup>h</sup> 8<sup>m</sup></b>					<b>R.A. 20<sup>h</sup> 8<sup>m</sup></b>				
59,405	A. 8529	9-1	2-3479	17-4754	59,975	A. 8631	8-4	1-4661	20-7002	59,975	A. 8631	8-4	1-4661	20-7002
59,327	W. 7479	8-8	2-6878	9-1007	59,854	W. 7571	9-1	2-0410	5-8296	59,854	W. 7571	9-1	2-0410	5-8296
59,285	W. 7484	9-0	4-9481	4-7608	59,834	A. 7573	5-6	5-6847	4-1773	59,834	A. 7573	5-6	5-6847	4-1773
59,478	A. 8535	8-7	5-1142	25-3677	59,928	A. 8644	9-0	5-9856	14-4157	59,928	A. 8644	9-0	5-9856	14-4157
59,259	W. 7488	9-4	5-8114	1-3999	59,823	W. 7578	9-4	8-6430	2-9212	59,823	W. 7578	9-4	8-6430	2-9212
59,348	W. 7489	9-0	6-9260	10-8840	59,961	A. 8649	7-6	8-7499	18-3088	59,961	A. 8649	7-6	8-7499	18-3088
59,387	A. 8544	9-0	9-9047	15-2416	59,846	W. 7579	9-6	8-9427	4-9795	59,846	W. 7579	9-6	8-9427	4-9795
					59,977	A. 8650	8-7	9-0253	20-4505	59,977	A. 8650	8-7	9-0253	20-4505
					60,025	A. 8653	8-7	10-1935	25-1899	60,025	A. 8653	8-7	10-1935	25-1899

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## STANDARD CO-ORDINATES.

20<sup>h</sup> 8<sup>m</sup>—20<sup>h</sup> 56<sup>m</sup>

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.																															
Hyd.	Wash. or Alg.		ℓ'.	η'.	Hyd.	Wash. or Alg.		ℓ'.	η'.	Hyd.	Wash. or Alg.		ℓ'.	η'.																														
R.A. 20 <sup>h</sup> 8 <sup>m</sup> (continued)															R.A. 20 <sup>h</sup> 24 <sup>m</sup> (continued)															R.A. 20 <sup>h</sup> 40 <sup>m</sup> (continued)														
59,885	W. 7586	9.3	11-25 12	8-5792	60,618	A. 8762	8-6	3-5196	21-3445	60,951	W. 7795	8-9	3-1626	6-2484																														
59,824	W. 7587	8-2	11-7203	3-1570	60,472	A. 8763	7-7	3-9550	9-4667	61,091	A. 8875	8-9	3-2227	24-4326																														
59,836	W. 7588	9-4	11-0673	3-4153	60,540	A. 8767	8-9	5-3392	14-4033	61,052	A. 8876	7-5	4-3907	18-6291																														
59,990	A. 8659	8-9	12-5004	21-0425	60,433	W. 7605	8-4	5-0762	6-1421	60,954	W. 7802	9-5	6-2721	5-5385																														
59,837	W. 7592	9-4	12-0333	4-1928	60,048	A. 8770	8-6	5-8917	23-3293	61,063	A. 8886	8-7	6-7745	20-0484																														
59,991	A. 8660	8-5	12-8399	21-4991	60,604	A. 8771	5-8	6-1708	19-4899	61,097	A. 8887	9-0	6-9774	24-8523																														
59,922	A. 8663	7-8	13-7334	12-7321	60,420	W. 7700	9-2	6-5277	5-7583	61,014	A. 8892	9-1	7-9416	13-9440																														
59,806	W. 7595	8-6	13-8313	0-6298	60,579	A. 8772	9-0	7-7088	17-6136	60,916	W. 7806	9-2	7-9514	2-4676																														
59,964	A. 8667	7-7	15-0634	17-7684	60,633	A. 8775	9-0	8-8808	21-9546	61,074	A. 8905	8-8	13-8541	20-9883																														
59,817	W. 7604	8-6	16-4451	1-6482	60,569	A. 8778	9-0	9-2969	10-7477	60,979	W. 7818	9-0	14-7354	8-7056																														
59,826	W. 7607	8-0	17-3820	2-8556	60,459	W. 7704	8-4	9-3171	8-9582	60,933	W. 7819	9-3	15-2149	3-9580																														
59,978	A. 8674	8-9	17-7448	20-0354	60,542	A. 8781	5-1	10-5972	14-7327	60,913	W. 7820	8-8	15-5509	1-7596																														
59,829	W. 7615	9-0	20-6561	3-0388	60,481	A. 8783	7-9	10-0768	10-1876	60,967	W. 7821	7-9	15-6587	7-3135																														
59,956	A. 8681	9-0	22-0305	17-1294	60,557	A. 8784	7-3	11-0051	15-4432	61,045	A. 8916	9-1	16-3641	17-3435																														
60,003	A. 8683	7-2	22-2510	21-8045	60,482	A. 8786	9-1	12-7038	9-8553	60,973	W. 7822	9-2	17-2169	8-0425																														
59,841	W. 7622	8-8	22-8801	4-4485	60,661	A. 8788	6-9	13-4092	24-0086	61,101	A. 8919	8-6	17-7926	24-8460																														
59,973	A. 8690	8-8	25-0339	19-2897	60,662	A. 8789	6-7	13-4731	23-9710	60,923	W. 7832	8-0	20-4246	2-2716																														
59,982	A. 8691	8-0	25-1446	19-9183	60,426	W. 7712	9-4	14-4613	5-3872	61,067	A. 8923	7-7	20-7786	19-8300																														
R.A. 20 <sup>h</sup> 16 <sup>m</sup>															60,438	A. 8793	9-2	15-0928	9-5877	61,068	A. 8924	7-3	20-8259	19-8529																				
60,232	A. 8690	8-8	2-2741	19-2825	60,586	A. 8801	8-5	17-8437	18-0478	61,070	A. 8930	8-7	23-3801	20-0890																														
60,241	A. 8691	8-0	2-3015	19-9098	60,499	A. 8802	9-1	19-0628	18-7461	61,049	A. 8931	6-7	23-4526	17-8849																														
60,164	A. 8693	9-1	3-5806	11-5251	60,412	W. 7724	8-9	20-4013	5-1238	R.A. 20 <sup>h</sup> 48 <sup>m</sup>																																		
60,195	A. 8695	8-8	4-4805	15-0306	60,358	W. 7728	7-8	21-2178	0-3833	61,272	A. 8931	6-7	0-6776	17-8950																														
60,243	A. 8696	7-8	4-5088	20-6429	60,643	A. 8813	9-1	24-1216	21-8713	61,152	W. 7845	9-4	2-8919	0-0749																														
R.A. 20 <sup>h</sup> 32 <sup>m</sup>															61,285	A. 8937	9-3	4-8752	20-2748																									
60,835	A. 8813	9-1	1-3896	21-8740	60,760	W. 7737	9-2	3-1335	8-3106	61,205	W. 7850	8-8	5-3120	8-9817																														
60,706	W. 7737	9-2	4-1500	4-1050	60,724	W. 7745	9-0	6-0001	20-3033	61,252	A. 8939	8-7	5-4445	14-6063																														
60,826	A. 8820	8-9	6-4899	14-5822	60,820	A. 8820	8-9	6-4899	14-5822	61,220	A. 8944	7-8	6-8794	11-5572																														
60,799	A. 8823	8-6	6-8933	13-8795	60,799	A. 8823	8-6	6-8933	13-8795	61,236	A. 8952	8-8	11-0020	12-2072																														
60,792	A. 8824	9-2	7-2454	7-8761	60,792	A. 8824	9-2	7-2454	7-8761	61,184	W. 7861	8-9	11-0029	5-5802																														
60,761	W. 7753	9-1	7-9216	16-7189	60,761	W. 7753	9-1	7-9216	16-7189	61,216	A. 8955	9-3	11-0796	9-3130																														
60,811	A. 8827	8-8	8-9544	5-3717	60,811	A. 8827	8-8	8-9544	5-3717	61,298	A. 8958	8-8	13-0791	22-1225																														
60,743	W. 7755	8-6	10-5745	17-7465	60,743	W. 7755	8-6	10-5745	17-7465	61,179	W. 7866	8-8	13-1834	4-1328																														
60,818	A. 8833	9-2	10-7025	5-3152	60,818	A. 8833	9-2	10-7025	5-3152	61,208	W. 7867	9-3	13-3403	8-3785																														
60,744	W. 7759	9-1	11-9260	14-3173	60,744	W. 7759	9-1	11-9260	14-3173	61,280	A. 8965	8-8	15-9210	19-3506																														
60,793	A. 8835	9-1	12-0600	3-6762	60,793	A. 8835	9-1	12-0600	3-6762	61,270	A. 8968	6-0	16-2688	16-6296																														
60,726	W. 7761	9-2	12-1661	14-5252	60,726	W. 7761	9-2	12-1661	14-5252	61,155	W. 7872	9-2	17-8109	0-2062																														
60,800	A. 8837	9-0	13-4273	6-6484	60,800	A. 8837	9-0	13-4273	6-6484	61,164	W. 7873	9-2	17-9923	1-5885																														
60,756	W. 7764	7-5	15-1815	17-8242	60,756	W. 7764	7-5	15-1815	17-8242	61,104	A. 8974	8-2	18-8484	24-5579																														
60,767	W. 7766	9-2	15-8688	15-5409	60,767	W. 7766	9-2	15-8688	15-5409	61,196	W. 7876	7-4	19-1759	6-9353																														
60,819	A. 8847	9-1	16-0034	5-9778	60,819	A. 8847	9-1	16-0034	5-9778	61,210	W. 7879	7-8	20-2188	8-5176																														
60,824	A. 8856	5-6	19-7083	18-9018	60,824	A. 8856	5-6	19-7083	18-9018	61,233	A. 8980	8-9	22-4375	11-8299																														
60,852	A. 8860	9-0	21-1178	23-8376	60,852	A. 8860	9-0	21-1178	23-8376	61,265	A. 8983	9-1	23-6065	15-7656																														
60,801	A. 8862	8-6	22-3866	14-8237	60,801	A. 8862	8-6	22-3866	14-8237	61,257	A. 8986	8-7	24-0909	14-4416																														
60,788	A. 8864	8-9	23-4190	12-4726	60,788	A. 8864	8-9	23-4190	12-4726	R.A. 20 <sup>h</sup> 56 <sup>m</sup>																																		
60,715	W. 7789	9-1	23-4371	1-6111	60,715	W. 7789	9-1	23-4371	1-6111	61,488	A. 8983	8-7	0-8088	15-7743																														
60,774	A. 8865	7-4	23-4425	9-8231	61,471	A. 8986	8-7	1-2788	14-4450	61,356	W. 7891	8-8	3-2537	1-9743																														
60,816	A. 8867	8-9	23-7606	17-0347	61,396	W. 7892	8-6	3-6466	5-8310	61,400	A. 8998	8-8	5-6903	15-9982																														
60,789	A. 8869	8-9	23-8333	12-8536	61,438	A. 9003	8-8	7-3212	11-2719	61,377	W. 7900	8-2	6-8095	4-2162																														
60,810	A. 8871	8-7	25-2358	15-8782	61,420	A. 9008	8-6	8-3274	9-1393	61,438	A. 9003	8-8	7-3212	11-2719																														
R.A. 20 <sup>h</sup> 40 <sup>m</sup>															61,462	W. 7904	9-0	8-4723	13-1669																									
61,036	A. 8867	8-9	0-9765	17-0416	61,475	A. 9010	8-9	10-0283	13-5938	61,453	A. 9012	6-2	10-8192	12-0531																														
61,001	A. 8869	8-9	1-0041	12-8599																																								
61,029	A. 8871	8-7	2-4391	15-8690																																								
R.A. 20 <sup>h</sup> 40 <sup>m</sup>																																												
60,455	W. 7680	9-2	0-7527	8-7870																																								
60,523	A. 8757	9-2	1-3565	13-7124																																								
60,525	A. 8758	9-0	1-4227	14-1721																																								
60,647	A. 8760	8-0	2-1083	22-7280																																								

Reference No.				Mag.	Standard co-ordinates, 1900-0.				Reference No.				Mag.	Standard co-ordinates, 1900-0.				Reference No.				Mag.	Standard co-ordinates, 1900-0.			
Hyd.		Wash. or Alg.			ξ.	η.			Hyd.		Wash. or Alg.			ξ.	η.			Hyd.		Wash. or Alg.			ξ.	η.		
R.A. 20 <sup>h</sup> 56 <sup>m</sup> (continued)																										
61,379	W. 7916	9.0	12.7307	3.9601					62,018	W. 8034	9.0	18.8623	3.3907					62,783	A. 9271	9.0	12.0190	13.0375				
61,521	A. 9015	8.9	13.6822	19.5763					62,100	A. 9143	9.1	20.5425	15.5809					62,754	A. 9276	7.9	14.1958	9.1411				
61,425	A. 9021	8.3	15.1482	9.4498					62,031	W. 8041	9.0	20.8431	6.2111					62,704	W. 8156	9.3	15.2106	4.9027				
61,502	A. 9022	8.9	15.3743	17.2944					62,111	A. 9153	9.2	24.3958	17.0393					62,672	W. 8158	9.3	16.0662	1.1659				
61,465	A. 9023	9.0	15.3996	12.9433														62,877	A. 9280	8.8	16.7921	22.1150				
61,532	A. 9029	8.9	17.0526	20.3804														62,773	A. 9284	8.8	18.7472	11.1347				
61,444	A. 9032	7.6	17.8856	11.3680														62,913	A. 9286	8.7	19.5803	25.5700				
61,408	W. 7931	9.3	19.2995	7.8823														62,865	A. 9288	8.9	19.9879	20.6840				
61,436	A. 9035	9.0	19.4925	10.2376														62,800	A. 9292	9.4	21.4439	14.4393				
61,524	A. 9036	9.1	19.5573	19.4160					62,361	A. 9153	9.2	1.6118	17.0393					62,662	W. 8169	8.9	22.1890	0.8885				
61,525	A. 9037	7.0	19.7869	19.0974					62,234	W. 8049	5.0	3.4853	4.1467					62,915	A. 9296	9.1	23.8051	25.4770				
61,533	A. 9038	8.9	20.0651	20.6865					62,201	W. 8052	9.0	4.8687	0.6027					62,833	A. 9297	8.8	25.2731	18.3534				
61,559	A. 9039	8.6	20.8711	24.0512					62,405	A. 9162	9.0	6.8174	21.5826													
61,458	A. 9041	8.6	20.8202	12.1607					62,434	A. 9176	7.9	13.3106	25.2152													
61,411	W. 7937	7.9	22.2735	7.7468					62,368	A. 9179	9.0	14.7208	17.1978													
61,399	W. 7941	9.2	24.3766	6.1758					62,399	A. 9180	8.7	14.9546	19.9732													
61,428	W. 7944	5.0	25.3799	8.5984					62,358	A. 9183	8.9	15.7433	16.7322													
R.A. 21 <sup>h</sup> 4 <sup>m</sup>																										
61,662	W. 7941	9.2	1.4754	6.1768					62,291	A. 9184	8.6	16.3901	9.4206					63,278	A. 9296	9.1	1.1120	25.4831				
61,701	W. 7944	5.0	2.4957	8.5884					62,378	A. 9185	9.2	16.9162	18.8229					63,160	A. 9297	8.8	2.5032	18.3436				
61,636	W. 7945	9.2	3.6386	3.8272					62,412	A. 9186	8.9	16.9905	22.9913					63,149	A. 9298	7.9	4.2503	17.5973				
..	W. 7946	9.4	4.6619	0.3217					62,293	A. 9195	8.9	21.0003	9.3269					63,201	A. 9299	9.0	4.8511	20.4153				
61,822	A. 9057	8.8	7.1786	17.5593					62,415	A. 9203	9.1	25.0682	22.4849					62,953	W. 8180	9.4	5.5188	0.9988				
61,868	A. 9058	9.6	7.4378	20.4498														63,249	A. 9300	8.6	5.3914	23.3314				
61,735	A. 9059	8.2	7.6573	11.2910														62,983	W. 8185	7.8	7.2020	3.6091				
61,628	W. 7960	8.2	9.0661	2.5526														63,057	A. 9305	8.2	7.5486	10.0982				
61,708	A. 9069	9.3	10.4395	9.2325														63,213	A. 9308	7.5	7.9062	21.1224				
61,944	A. 9071	9.1	10.9998	25.3326														63,251	A. 9310	8.9	9.4498	22.9745				
61,610	W. 7968	7.4	12.5142	1.2506					62,612	A. 9203	9.1	2.3428	22.4770					63,253	A. 9317	7.5	12.4033	23.2221				
61,899	A. 9076	9.2	12.6446	22.9024					62,462	W. 8088	9.2	3.1829	2.7911					63,282	A. 9318	8.9	13.0293	25.2626				
61,711	A. 9077	9.2	13.9814	8.9882					62,503	W. 8090	9.0	4.1793	8.1917					63,059	A. 9323	9.2	14.9740	10.3422				
61,918	A. 9078	8.8	15.0797	23.3816					62,597	A. 9205	9.0	6.2710	19.8446					63,224	A. 9324	9.2	15.9059	20.9100				
61,054	W. 7975	9.0	15.2402	5.3094					62,514	A. 9206	8.5	6.4149	9.3977					63,000	W. 8191	6.6	15.0551	4.7351				
61,881	A. 9079	7.9	15.5761	21.8505					62,604	A. 9212	9.1	8.8580	21.1799					63,175	A. 9326	9.0	16.2049	18.7564				
61,740	A. 9080	8.8	16.2139	11.5805					62,634	A. 9217	9.0	10.8144	25.2491					62,989	W. 8199	9.0	21.5680	3.5846				
61,847	A. 9082	9.0	18.3111	18.3510					62,635	A. 9221	8.5	11.9591	25.1215					63,209	W. 8202	8.8	22.1370	7.4500				
61,874	A. 9086	9.0	19.9121	20.3847					62,571	A. 9226	9.0	13.8057	16.7355					63,256	A. 9338	9.1	22.2262	23.1348				
61,671	W. 7988	9.2	21.5670	6.0809					62,518	A. 9228	8.9	14.6419	9.4256					63,257	A. 9339	9.2	22.2521	23.2547				
61,907	A. 9088	9.1	21.7762	22.8721					62,471	W. 8113	9.0	15.6504	3.2846					63,105	A. 9343	9.1	24.3585	13.2878				
61,698	W. 7991	8.9	22.5276	8.0905					62,566	A. 9230	9.0	15.7925	16.0958					62,990	W. 8206	8.9	25.0269	3.6863				
61,761	A. 9094	8.2	24.9480	12.7583					62,453	W. 8116	8.6	16.2870	0.6130					62,900	W. 8207	9.0	25.1264	0.8871				
R.A. 21 <sup>h</sup> 12 <sup>m</sup>																										
62,085	A. 9094	8.2	2.1176	12.7527					62,473	W. 8118	9.0	16.6453	3.1133													
62,086	A. 9097	8.5	2.6574	13.3013					62,466	W. 8123	8.8	19.3742	2.2188													
62,053	A. 9099	9.2	3.1664	9.2294					62,472	A. 9243	8.3	20.9564	23.0876													
62,106	A. 9100	8.5	4.1949	16.8430					62,504	A. 9244	9.2	21.2998	20.1361													
62,054	W. 8002	9.1	4.9074	8.6037					62,468	W. 8126	9.0	21.3581	2.9048													
62,087	A. 9105	8.9	5.5158	12.8609					62,512	W. 8128	8.7	21.8765	7.5853													
62,062	A. 9106	6.3	5.9023	10.1181					62,520	A. 9252	8.0	23.7202	23.6783													
62,124	A. 9108	8.8	5.9694	19.2304																						
62,057	A. 9116	9.2	11.2048	8.0920																						
62,127	A. 9123	9.1	12.6856	18.9515																						
62,134	A. 9125	9.1	13.3588	20.0899																						
62,117	A. 9128	6.6	13.9921	17.8506																						
62,080	A. 9131	8.2	14.9048	11.5789																						
62,081	A. 9133	9.2	15.7583	12.4301																						
R.A. 21 <sup>h</sup> 12 <sup>m</sup> (continued)																										
62,361	A. 9153	9.2	1.6118	17.0393																						
62,234	W. 8049	5.0	3.4853	4.1467																						
62,201	W. 8052	9.0	4.8687	0.6027																						
62,405	A. 9162	9.0	6.8174	21.5826																						
62,434	A. 9176	7.9	13.3106	25.2152																						
62,368	A. 9179	9.0	14.7208	17.1978																						
62,399	A. 9180	8.7	14.9546	19.9732																						
62,358	A. 9183	8.9	15.7433	16.7322																						
62,291	A. 9184	8.6	16.3901	9.4206																						
62,378	A. 9185	9.2	16.9162	18.8229																						
62,412	A. 9186	8.9	16.9905	22.9913																						
62,293	A. 9195	8.9	21.0003	9.3269																						
62,415	A. 9203	9.1	25.0682	22.4849																						
R.A. 21 <sup>h</sup> 28 <sup>m</sup>																										
62,612	A. 9203	9.1	2.3428	22.4770																						
62,462	W. 8088	9.2	3																							



Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ℓ.	η.		Hyd.	Wash. or Alg.	ℓ.	η.		Hyd.	Wash. or Alg.	ℓ.	η.	
<b>R.A. 22<sup>h</sup> 0<sup>m</sup></b>					<b>R.A. 22<sup>h</sup> 24<sup>m</sup></b>					<b>R.A. 22<sup>h</sup> 40<sup>m</sup> (continued)</b>				
63,711	A. 9380	7-8	1-1000	12-9928	64,518	A. 9500	8-8	3-4990	23-3856	64,769	W. 8450	9-0	12-8241	2-3408
63,701	A. 9387	9-0	1-0500	11-9556	64,438	A. 9507	8-9	3-6796	13-3352	64,770	W. 8456	8-9	13-6366	2-1855
63,702	A. 9389	8-9	2-4073	12-2581	64,424	A. 9509	9-1	4-0507	11-2511	64,941	A. 9608	9-2	14-9470	20-515
63,628	W. 8254	8-9	2-5958	4-1213	64,539	A. 9508	8-7	4-0823	25-8877	64,963	A. 9610	7-8	16-2523	22-7649
63,756	A. 9391	6-6	3-5865	17-6244	64,485	A. 9510	8-0	4-0981	10-2151	64,807	W. 8461	9-1	16-5108	7-8527
63,618	W. 8258	8-3	4-3169	6-3811	64,439	A. 9511	8-9	4-5689	13-3078	64,757	W. 8462	8-5	17-7601	0-2515
63,795	W. 8259	8-3	4-3340	6-3724	64,462	A. 9512	8-9	4-7677	15-6905	64,876	A. 9616	6-8	18-8570	13-9441
63,680	W. 8262	8-7	5-7980	11-9411	64,372	W. 8376	7-7	4-7072	4-0120	64,877	A. 9617	8-6	19-0234	14-2736
63,743	W. 8262	Var.	6-8995	2-3210	64,373	W. 8377	7-6	4-8193	4-0287	64,930	A. 9620	8-3	19-3749	20-3243
63,717	A. 9395	9-2	7-9000	10-3010	64,361	W. 8378	9-2	5-9078	2-6324	64,809	W. 8465	9-2	19-4320	8-0639
63,730	A. 9397	8-3	9-2933	16-5707	64,463	A. 9514	9-2	6-0234	16-4904	64,943	A. 9621	8-9	20-2167	21-1069
63,789	A. 9400	9-4	10-9386	13-4783	64,415	A. 9517	7-7	6-2966	10-2492	64,764	W. 8467	9-0	20-6183	1-9775
63,626	A. 9403	9-1	12-3815	15-1883	64,457	A. 9520	9-1	7-3075	15-1851	64,846	A. 9625	8-6	22-2600	10-4200
63,771	A. 9407	9-2	14-1920	20-0250	64,416	A. 9522	8-4	8-4835	10-3740	64,812	W. 8470	8-0	23-1702	7-3975
63,656	W. 8276	9-2	16-2317	2-6616	64,595	A. 9523	8-8	9-1481	20-7496	64,975	A. 9630	8-9	24-3757	24-1842
63,771	A. 9413	8-4	19-8244	18-0441	64,377	W. 8388	8-7	13-4802	4-8357					
63,656	W. 8278	9-4	19-9174	6-3979	64,378	W. 8389	9-0	13-9175	4-8188					
63,645	W. 8281	9-3	20-1993	5-0015	64,353	W. 8391	8-5	14-6845	0-7423					
63,627	W. 8282	9-3	20-6610	3-1505	64,529	A. 9530	9-0	14-8624	24-0492					
63,761	A. 9414	8-1	20-8716	16-8753	64,466	A. 9534	8-7	16-5235	16-2683					
63,617	W. 8283	8-2	21-5706	1-4920	64,537	A. 9533	9-2	17-9092	25-3111					
63,646	W. 8284	9-2	21-7535	4-5791	64,366	W. 8402	8-9	19-6811	2-5012					
63,618	W. 8285	9-1	21-8440	2-2271	64,460	A. 9538	9-0	20-8105	14-9309					
63,763	A. 9417	9-3	22-9125	17-6021	64,387	W. 8404	9-2	21-3364	5-4930					
63,846	A. 9418	6-0	22-9315	25-1352	64,445	A. 9539	7-0	23-1172	13-2094					
63,832	A. 9419	8-6	23-2669	24-7185	64,435	A. 9541	8-6	23-5791	12-4086					
63,834	A. 9421	8-7	24-3163	24-3250	64,407	A. 9543	8-0	24-3167	16-4766					
<b>R.A. 22<sup>h</sup> 8<sup>m</sup></b>					<b>R.A. 22<sup>h</sup> 32<sup>m</sup></b>					<b>R.A. 22<sup>h</sup> 48<sup>m</sup></b>				
64,055	A. 9421	8-7	1-6109	24-3254	64,624	A. 9541	8-6	0-7451	12-4177	65,127	A. 9630	8-9	1-6687	24-1840
64,021	A. 9424	9-1	2-9037	17-7737	64,612	A. 9543	8-0	1-5205	16-4714	65,106	A. 9633	8-9	3-5336	19-8081
64,029	A. 9425	8-2	3-3960	18-8373	64,552	W. 8409	9-0	4-6875	0-6274	65,087	A. 9635	8-9	5-9821	17-2106
64,050	A. 9435	9-1	8-2340	18-5026	64,628	A. 9547	8-8	4-7689	13-2927	65,016	W. 8448	9-2	9-3429	3-4774
64,040	A. 9436	9-2	9-6920	20-4620	64,691	A. 9550	8-8	5-3075	20-8216	65,013	W. 8448	8-3	10-4953	3-2503
64,032	A. 9437	8-7	10-4217	19-2591	64,711	A. 9552	8-6	6-6321	24-2101	65,040	A. 9645	8-8	12-7737	9-3603
63,908	W. 8304	8-8	12-0810	2-3920	64,655	A. 9554	8-3	8-1134	14-6600	65,005	A. 9646	9-0	12-8857	17-7488
63,968	A. 9443	9-3	12-8952	9-7047	64,629	A. 9556	6-5	8-5222	12-7227	65,056	A. 9648	8-9	14-4891	10-7143
64,060	A. 9444	9-0	13-6811	24-4025	64,630	A. 9558	9-3	9-5078	13-0619	65,109	A. 9650	8-3	14-8090	20-0924
63,909	W. 8310	9-0	15-7912	2-2512	64,572	W. 8414	9-3	10-1320	3-0474	65,036	W. 8496	9-0	15-7248	7-7687
64,015	A. 9451	9-0	16-1922	15-8087	64,556	W. 8415	9-4	10-2887	0-4052	65,052	A. 9658	9-0	18-4823	10-3257
63,960	A. 9455	9-2	17-3929	8-6920	64,694	A. 9561	8-8	10-5829	20-8868	65,131	A. 9662	9-1	20-9276	23-8272
64,015	A. 9460	9-1	19-4445	20-6608	64,702	A. 9562	7-7	10-7788	22-1690	65,034	W. 8515	9-0	24-8653	6-9503
63,993	A. 9464	9-2	20-7898	13-1727	64,588	W. 8416	8-6	11-1269	4-8788	65,007	W. 8516	8-6	25-2071	1-8481
63,970	W. 8320	8-6	21-1094	9-4517	64,589	W. 8423	9-2	13-3852	5-1879					
63,944	W. 8324	8-9	23-0791	6-8109	64,558	W. 8428	8-8	16-2598	0-9046					
64,040	A. 9468	8-4	24-6300	20-9728	64,659	A. 9574	8-7	17-9485	16-8242					
<b>R.A. 22<sup>h</sup> 16<sup>m</sup></b>					64,681	A. 9578	9-1	20-3594	18-7747					
64,265	A. 9468	8-4	1-884	20-9700	64,663	A. 9580	8-9	20-6264	16-9581					
64,246	A. 9471	8-9	3-4665	18-8016	64,592	W. 8436	8-0	22-4051	4-5269					
64,125	W. 8338	8-2	7-6958	3-4434	<b>R.A. 22<sup>h</sup> 40<sup>m</sup></b>									
64,195	A. 9481	9-1	8-7812	12-5979	64,985	A. 9584	8-7	2-9849	26-0398					
64,106	W. 8344	9-3	10-2859	1-9757	64,967	A. 9586	8-6	3-4995	24-5339					
64,300	A. 9485	8-7	12-8577	25-1222	64,849	A. 9590	8-9	5-6983	12-0035					
64,120	W. 8352	9-2	15-6489	3-2746	64,902	A. 9592	8-7	6-9367	17-4390					
64,172	A. 9496	9-4	20-2837	10-1576	64,882	A. 9595	8-8	8-5412	14-4964					
64,208	A. 9498	7-4	21-9582	14-2128	64,870	A. 9596	8-9	8-7232	13-5536					
64,156	W. 8369	9-0	22-9139	8-0615	64,958	A. 9597	8-6	8-9802	22-6716					
<b>R.A. 22<sup>h</sup> 40<sup>m</sup></b>					<b>R.A. 23<sup>h</sup> 4<sup>m</sup></b>									
64,985	A. 9584	8-7	2-9849	26-0398	65,493	A. 9706	6-1	1-3437	8-4450					
64,967	A. 9586	8-6	3-4995	24-5339	65,480	W. 8552	7-8	1-7461	6-2851					
64,849	A. 9590	8-9	5-6983	12-0035										
64,902	A. 9592	8-7	6-9367	17-4390										
64,882	A. 9595	8-8	8-5412	14-4964										
64,870	A. 9596	8-9	8-7232	13-5536										
64,958	A. 9597	8-6	8-9802	22-6716										

Reference No.		Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ.	η.		
R.A. 23 <sup>h</sup> 4 <sup>m</sup> (continued)						
65,558	A. 9708	9.1	2-6829	23-8455		
65,562	W. 8562	9.0	5-5718	3-1744		
65,486	A. 9710	8.8	10-0900	8-1762		
65,472	W. 8566	8.0	10-2308	4-4823		
65,515	A. 9722	8.9	11-8657	12-6806		
65,520	A. 9727	8.8	14-6405	13-9956		
65,516	A. 9729	8.6	15-3183	12-8779		
65,524	A. 9730	8.7	15-7923	15-1951		
65,522	A. 9732	8.5	16-9693	14-2578		
65,457	W. 8732	9.0	18-6038	14-4473		
65,555	A. 9739	9.2	19-7158	23-0979		
65,482	W. 8581	8.8	19-9181	6-3399		
65,567	A. 9741	9.3	20-6435	25-5548		
65,497	A. 9742	9.0	21-8351	8-9405		
65,510	A. 9743	8.6	21-8961	11-7959		
65,511	A. 9745	8.5	22-2452	11-4041		
65,505	A. 9748	7.9	24-3195	23-9989		
65,512	A. 9749	8.6	25-0712	11-9950		
R.A. 23 <sup>h</sup> 12 <sup>m</sup>						
65,714	A. 9748	7.9	1-6105	23-9993		
65,653	A. 9749	8.6	2-2327	11-9880		
65,626	W. 8591	9.0	2-7407	6-6293		
65,627	W. 8595	7.6	4-4787	6-4559		
65,655	A. 9751	8.5	4-5900	12-0773		
65,611	W. 8601	9.1	7-3238	3-6825		
65,602	W. 8604	9.0	7-7760	0-9037		
65,618	W. 8607	9.2	8-4323	6-0598		
65,675	A. 9763	9.0	10-0474	16-3985		
65,651	A. 9767	9.1	11-7900	10-9441		
65,697	A. 9770	7.8	12-6410	21-5327		
65,719	A. 9775	9.0	16-6840	24-2591		
65,691	A. 9778	6.0	19-0282	20-4836		
65,612	W. 8628	9.2	20-1190	4-1456		
65,606	W. 8629	9.2	20-7157	3-2004		
65,667	A. 9786	8.7	23-5343	14-6304		
65,668	A. 9788	8.8	24-7471	13-8007		
65,643	W. 8634	8.4	25-1238	3-8711		
65,623	W. 8635	8.3	25-2407	6-1171		
R.A. 23 <sup>h</sup> 20 <sup>m</sup>						
65,824	A. 9786	8.7	0-7243	14-6399		
65,863	A. 9785	7.8	0-7418	26-1286		
65,820	A. 9788	8.8	1-0281	13-7971		
65,760	W. 8634	8.4	2-1976	3-8641		
65,768	W. 8635	8.3	2-3388	6-1091		
65,762	W. 8638	9.4	3-3816	4-0435		

Reference No.		Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ.	η.		
R.A. 23 <sup>h</sup> 20 <sup>m</sup> (continued)						
65,781	A. 9790	9.1	4-6008	8-6975		
65,790	A. 9793	9.0	6-0696	9-7231		
65,754	W. 8646	9.2	7-2180	2-0350		
65,830	A. 9798	7.2	9-0934	17-0657		
65,834	A. 9800	8.5	9-7026	15-9993		
65,798	A. 9802	8.9	10-6139	11-4233		
65,825	A. 9804	8.5	11-0072	15-1322		
65,827	A. 9810	8.5	12-5587	15-1194		
65,846	A. 9811	8.4	12-8763	20-7460		
65,820	A. 9822	9.4	19-0544	14-7300		
65,767	W. 8672	9.2	25-5919	4-6015		
65,862	A. 9830	8.8	25-8523	25-8458		
65,805	A. 9832	9.0	26-2057	10-8815		
R.A. 23 <sup>h</sup> 28 <sup>m</sup>						
65,918	W. 8672	9.2	2-6736	4-5896		
66,061	A. 9830	8.8	3-1630	25-8285		
65,932	A. 9832	9.0	3-3549	10-8624		
66,021	A. 9838	8.8	6-5101	18-8844		
65,957	A. 9843	9.3	10-2006	9-8178		
65,926	W. 8688	8.1	11-7708	5-6957		
65,920	A. 9846	8.5	11-9844	20-2428		
65,995	A. 9849	9.0	13-1159	15-1587		
66,016	A. 9853	8.8	15-6377	18-3402		
66,055	A. 9854	9.1	15-9235	24-3283		
65,949	A. 9855	9.2	16-4918	8-8935		
65,943	W. 8698	8.0	16-9703	5-7326		
65,927	W. 8699	8.7	17-3919	5-7368		
66,000	A. 9858	9.2	17-4847	16-1668		
65,928	W. 8701	8.9	19-2233	6-0528		
65,913	W. 8702	7.6	19-4928	2-6359		
65,971	A. 9866	8.7	23-0148	10-5055		
65,989	A. 9868	8.3	23-9109	14-4067		
65,951	A. 9869	9.1	24-5405	8-3480		
65,932	W. 8713	9.3	25-0659	6-4068		
R.A. 23 <sup>h</sup> 36 <sup>m</sup>						
66,163	A. 9868	8.3	1-0985	14-4129		
66,135	A. 9869	9.1	1-6626	8-3470		
66,130	W. 8713	9.3	2-1670	6-4009		
66,175	A. 9876	8.6	7-6711	17-1502		
66,137	A. 9879	9.4	8-8352	8-1342		
66,165	A. 9883	9.1	12-6739	3-9075		
66,120	W. 8724	8.9	14-0094	13-0751		
66,192	A. 9887	4.8	14-1129	19-9562		
66,176	A. 9890	5.3	14-6305	17-1557		

Reference No.		Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Wash. or Alg.		ξ.	η.		
R.A. 23 <sup>h</sup> 36 <sup>m</sup> (continued)						
66,129	W. 8735	9.2	20-7673	5-5423		
66,268	A. 9896	6.0	21-5640	23-0036		
66,184	A. 9898	9.2	22-9555	18-3399		
66,107	W. 8742	9.2	24-4351	1-7922		
R.A. 23 <sup>h</sup> 44 <sup>m</sup> .						
66,259	W. 8742	9.2	1-4865	1-7922		
66,317	A. 9904	8.8	4-1497	9-3099		
66,318	A. 9909	8.7	7-1466	8-8672		
66,401	A. 9912	8.8	8-3207	18-9488		
66,289	W. 8757	7.7	10-1424	4-0243		
66,456	A. 9920	9.2	15-1026	24-5718		
66,347	A. 9921	8.7	15-9646	12-1864		
66,447	A. 9925	7.2	17-5867	23-1762		
66,358	A. 9926	9.1	18-0117	12-6149		
66,395	A. 9930	8.8	19-8429	18-0581		
66,303	W. 8778	9.4	20-3328	6-2280		
66,349	A. 9932	9.1	21-0774	12-5358		
66,255	W. 8780	8.8	21-8412	0-4769		
66,417	A. 9933	8.0	22-0071	19-9977		
66,439	A. 9934	8.9	22-1397	22-2611		
66,448	W. 8784	8.1	23-1636	0-1909		
66,293	W. 8786	9.0	23-5500	4-2810		
66,270	W. 8787	9.0	23-9246	1-4577		
66,450	A. 9937	8.8	25-3023	22-8805		
R.A. 23 <sup>h</sup> 52 <sup>m</sup>						
66,525	W. 8786	9.0	0-6284	4-2917		
66,590	W. 8787	9.0	0-9725	11-6636		
66,604	A. 9937	8.8	2-5811	22-8609		
66,656	A. 9941	9.1	3-3229	22-2409		
66,669	A. 9942	7.8	3-3748	24-0790		
66,619	A. 9948	7.9	8-1018	17-6312		
66,628	A. 9949	9.0	8-5128	18-5507		
66,638	A. 9953	8.8	10-1213	19-7666		
66,580	W. 8797	9.0	11-1159	10-8809		
66,559	A. 9957	8.9	11-6699	8-3803		
66,504	W. 8799	9.2	11-9260	0-3659		
66,672	A. 9961	9.1	13-4143	24-1181		
66,562	W. 8801	9.2	15-2957	7-8907		
66,574	A. 9966	9.2	16-7104	10-4100		
66,554	W. 8808	8.7	19-2768	7-0089		
66,683	A. 9975	8.7	20-6696	25-7840		
66,645	A. 9979	8.3	21-4588	19-8719		
66,535	W. 8813	7.9	22-4540	4-9539		
66,548	W. 8814	9.2	24-2259	5-6232		



